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WV PURCHASING
DIVISION

PROPOSAL FOR A/E SERVICES
CEOI 0211 GSD180000004
Building Four Renovations



PREPARED FOR

STATE of WEST VIRGINIA
GENERAL SERVICES DIVISION

May 2, 2018

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI 0211 GSD1800000004

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

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

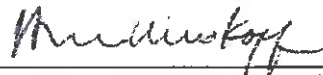
Addendum Numbers Received:
(Check the box next to each addendum received)

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

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

Perfido Weiskopf Wagstaff + Goettel (PWWG)

Company



Alan Weiskopf, AIA (Managing Principal)
Authorized Signature

May 1, 2018

Date

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

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PWWG

Tower Engineering

Moment Engineering

The Sextant Group

The Preview Group



Michelle Childers, Senior Buyer
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

May 2nd, 2018

Re: CEOI 0211 GSD1800000004 for Building Four Renovations

Dear Ms. Childers and Members of the Evaluation Committee:

PWWG is pleased to submit our qualifications in response to EO: Building Four Renovations. Based on our recent experience with similar work on Building #3 and other representative projects, we believe our firm is exceptionally well qualified for this project. It is also exciting to have an opportunity to continue our work on your Capitol Complex campus.

In this cover letter, I want to point out a couple of unique aspects that PWWG will bring to this project. First, and with all due respect to the architects of other studies on Building 4, we feel there is an opportunity to revisit some of the decision making on previous studies that are not yet implemented. The reasoning that led to the documents calling for construction of a new stair and elevator tower may have been thoroughly vetted, considered, and approved. We also understand that the proposed elevator offers improved vertical circulation that may be a benefit to the building. If those are confirmed to be built, that is fine. However, with our code consultant for this project, The Preview Group, we think that reconsidering those decisions may be warranted to confirm that the work is entirely necessary to achieve an acceptable level of life safety, and just as importantly — that it proves to be the best use of taxpayer dollars.

Another aspect to be considered is the fact that PWWG has been selected to provide phased elevator modernizations in various state-owned buildings throughout West Virginia. This contract includes Building 4. Having this Building 4 Renovations project and the elevator modernization undertaken in the same contract, by the same design team would be efficient. In fact, if we are not successful on this current submission, we suggest that the upgrade of the Building 4 elevators be extracted from PWWG's elevator project and added to this new Building 4 project. This would provide a single firm for both projects, a common point of contact for GSD, and the opportunity for better coordination. We think this would be in the best interest of GSD.

Finally, PWWG is a regional leader in the rehabilitation of historic structures and other architecturally significant buildings. If selected for this project, it will receive the attention that it deserves to create a contemporary workplace that meets the functional and health needs of your workers, while preserving and in some cases, improving the character defining features of the building.

Thank you,

Alan Weiskopf, AIA
Managing Principal of PWWG and Principal-in-Charge of the Project

ALAN WEISKOPF, AIA MSA CARVER, AIA SHELDON GOETTEL, AIA BRENT HOUCK, AIA ANTHONY FITZSI, AIA KEVIN WAGSTAFF, AIA
408 SOLEAVARD OF THE ALLIES PITTSBURGH, PA 15219-1301 (412.391.2884) PH (412.391.1657) FX WWW.PWWGARCH.COM



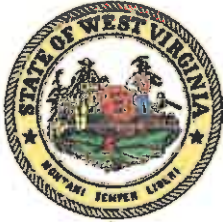
QUALIFICATIONS / PROJECT TEAM

Project Team / Organizational Chart

Perfido Weiskopf Wagstaff + Goettel



These experienced design professionals will be dedicated to your project throughout the duration of the work. They have the skill to both manage and execute design tasks from preparation of design options to creation of construction documents, to the coordination of construction, and public presentations. We will lead the design process with integrity and will deliver results that exceed expectations.



Architectural, Interior Design, and Project Management Services



Alan Weiskopf, AIA
Principal-in-Charge



Brent Houck, AIA
Project Manager /
Lead Interior Designer



Jessica Stuck, AIA
Project Architect



Joe Filar, RA
Quality Assurance /
Quality Control

Consulting Services

MEP/FP ENGINEERING

TOWER ENGINEERING

James N. Kosinski, PE, LEED AP Principal
Principal-in-Charge

Thomas J. Gorski, PE, LEED AP
Lead Mechanical Designer

Michael S. Plummer, PE, CIPE, LEED AP
Lead Plumbing / Fire Protection Designer

T. Steffanie Bako, PE, LEED AP
Lead Electrical Designer

STRUCTURAL ENGINEERING

MOMENT ENGINEERING

Douglas Richardson, PE,
LEED AP
Principal Structural Engineer

AV / IT / SECURITY

THE SEXTANT GROUP

Paul Dooley, RCDD, CTS
Principal Consultant / Principal in Charge

Terry A. Robinette, PSP, RCDD
Senior Systems Designer /
Lead IT / Telecom

CODE CONSULTING

THE PREVIEW GROUP, INC.

Sarah Rice, CBO
Principal-in-Charge

Gregory Nicholls, AIA
Project Manager

David Collins, FAIA, NCARB
Project Manager

PWWG Firm Overview

Perfido Weiskopf Wagstaff + Goettel



About Us

PWWG is a diverse, versatile architectural practice, with experience in a wide variety of building types. Our portfolio includes projects, large and small, for cultural institutions, higher education, government, businesses, and individuals.

PWWG has an extensive portfolio of design for new buildings and adapting existing buildings for new uses. We find creative solutions to architectural challenges where the historic, cultural, and social attributes of the built environment meet with physical space and place. PWWG's practice is characterized by meticulous and innovative programming, an urban sensibility that results in a highly contextual approach to design, thoughtful and perceptive application of architectural styles, and a focus on sustainability and materiality as critical design elements.

With design expertise and technical knowledge from 40+ years of experience, PWWG offers clients the production capabilities of a large firm with the personal attention that only a mid-size firm can consistently offer. The partners lead an interdisciplinary studio comprising 21 staff members including highly skilled architects, with special interest areas from preservation and adaptive reuse, to sustainability and interior design.

PWWG has been recognized with numerous awards that celebrate the firm's design excellence, creative expertise, and high level of client service.

Areas of Specialization

While PWWG's portfolio is diverse, we offer specific expertise in projects of the following types:

- Facilities for higher education (labs, classrooms, offices, administrative, and workforce training buildings).
- Rehabilitation, preservation, and adaptive reuse of historic architecture and existing buildings.
- Multi-family residential design (affordable and market rate, student and senior housing, and luxury condominiums).

We also design hotels, theaters, galleries, retail, and parking structures. Repeat clients include non-profit institutions, private businesses, public/private partnerships, and government.

Size of Projects

PWWG provides comprehensive architectural services for projects ranging from small feasibility studies to construction projects between \$1M and \$40M. Our largest project to date is the comprehensive renovation of Cincinnati Music Hall, completed in September 2017, with total project costs of approximately \$143M.

Work Process

Every project at PWWG is led by a Principal and a seasoned Project Manager. Both are committed to the work from the earliest conceptual stages through construction and occupancy.



Office visit to one of PWWG's current projects restoring a historic library for new use as a Maker Lab for the Pittsburgh Children's Museum.

PWWG Firm Overview

Perfido Weiskopf Wagstaff + Goettel



Established

1975

Principals

- Alan Weiskopf, AIA
- Lisa Carver, AIA, LEED AP
- Sheldon Goettel, AIA, LEED AP
- Brent Houck, AIA, LEED AP
- Anthony Pitassi, AIA, LEED AP
- Kevin Wagstaff, AIA, LEED AP

Structure

Limited Liability Company

Current Staff

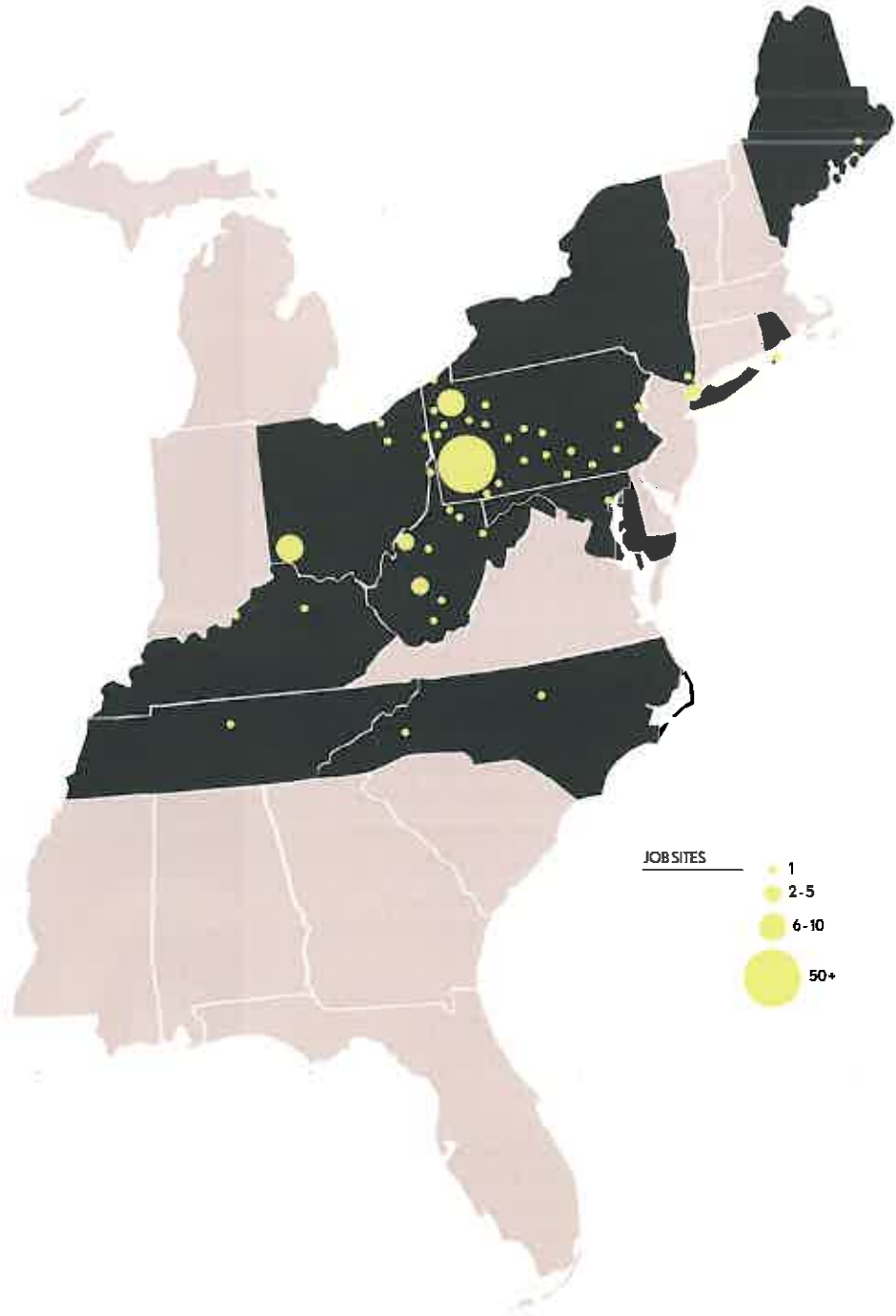
- 21 Professionals
- 10 Registered Architects
- 9 LEED AP
- 3 Administrative and Support

Main Office

PWWG Pittsburgh
408 Boulevard of the Allies
Pittsburgh, PA 15219

Branch Office

PWWG Cincinnati
432 Evanswood Place
Cincinnati, OH 45220



Alan Weiskopf, AIA

Managing Principal | Perfido Weiskopf Wagstaff + Goettel

Role in the WV Building 4 Renovation:
Principal-in-Charge



Alan joined PWWG in 1981 as an associate and became a principal of the firm in 1986. He has served as the project architect or principal-in-charge of many of the firm's most significant projects. He has a wide range of experience in terms of project type and size, with particular emphasis on higher education, restoration and adaptive reuse, renovation and preservation of culturally significant structures, and hospitality projects. He has also managed several of the firm's joint venture relationships. Alan is a past President of AIA PA. He is a past member of the Board of Code Review and of the Board of Standards and Appeals for the Department of Permits, Licenses and Inspections in the City of Pittsburgh.

Historic Renovations

Education

University of Cincinnati
Bachelor of Architecture, 1975

Years in Architectural Practice: 42

Years with Firm: 36

Registration

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

Professional Associations

NCARB Certification
American Institute of Architects

Chairman, City of Pittsburgh Board of Appeals

AIA Pittsburgh Board of Directors (1990-1996)

AIA PA Board (1997-2001)

Member, Urban Land Institute Member, CEO's for Cities

- **Main Capitol Rotunda, Charleston, WV** — Historic restoration of rotunda interior.
- **Pennsylvania Capitol Restoration, Harrisburg, PA** — Multi-phase restoration of the 1906 state capitol building on the National Register, including the roof, domes, cupolas, masonry, windows, and exterior paving, and regilding of the ornate "Commonwealth" statue atop the main dome.
- **Pennsylvania Capitol Peristyle Deck Restoration, Harrisburg** — Investigation, analysis and design for waterproofing the exterior peristyle walkway at the base of the 52M ton ornate dome of the 1906 state capitol building on the National Register.
- **Cincinnati Music Hall Renovation and Expansion of Cincinnati Symphony Orchestra Offices, Cincinnati, OH** — After coordinating the client's competitive application for \$25M in "Catalyst Grant" funding, the firm lead the restoration and upgrade of this iconic performance venue. 225,000 sf.
- **West Virginia State Capitol Building Three, Charleston, WV** — Renovation and reuse of a historic office building. 165,000 sf.
- **Old Main Building Selective Renovations, West Virginia University, Montgomery, WV** — Exterior, interior, Life Safety, and Accessibility renovations and upgrades to this Historic Register building. Size: N/A (roof only).
- **Oglebay Hall & Ming Hsieh Hall, West Virginia University, Morgantown, WV** — 55,000 sf historic renovation and 20,000 new building. LEED.
- **21c Museum Hotel, Cincinnati, OH** — Rehab of Historic Register downtown hotel for new upscale 170 room hotel. 159,000 sf.
- **21c Museum Hotel, Lexington, KY** — Conversion of Historic Register 15-story First National Bank Building in downtown Lexington to an upscale 90 room hotel. 103,500 sf.
- **21c Museum Hotel, Durham, NC** — Conversion of Historic Register 17-story Hill Building in downtown Durham to an upscale 120 room hotel. 134,000 sf.
- **21c Museum Hotel, Nashville, TN** — Conversion of Historic Register 7-story Gray & Dudley Hardware Building in downtown Nashville to an upscale hotel. 120,000 sf.
- **575 Broadway, New York, NY** — Adaptive reuse of historic urban building for office and museum uses. 160,000 sf.
- **PA Historic & Museum Commission, PA** — Three 5-year open-end contracts for historic restoration work at sites throughout the Commonwealth.

Additional Projects in West Virginia and Large Office Building Design

- **Utilities and Infrastructure Improvements & Quad Design, WVU, Evansdale, WV** — PWWG led a team of engineers developing and implementing an infrastructure plan for 5 facilities on 150 acres on the campus.
- **Campus Parking Expansion, West Virginia University, Evansdale, WV** — New parking capacity on the campus, as a component of the Utilities and Infrastructure Improvements project.
- **FORE Systems Campus, Warrendale, PA** — High tech office and manufacturing campus—5 buildings. 574,000 sf.

Brent Houck, AIA, LEED AP

Principal | Perfido Weiskopf Wagstaff + Goettel

Role in the WV Building 4 Renovation:
Project Manager / Lead Interior Designer



Brent has been with PWWG for more than ten years and is an emerging leader in the firm's technology and LEED/sustainability practices. He was pivotal in implementing 3D Revit, computer modeling, and BIM throughout the office, and has worked to improve the office's use of 3D modeling technologies to improve client understanding of the project throughout the design process. Brent has managed design and production for several of the firm's signature projects in multi-family residential, hospitality, and higher education. He volunteers outside of PWWG, currently serving on a facilities committee for Pittsburgh Urban Christian School.

Education

Carnegie Mellon University Bachelor of Architecture, 2007

Registration

Architect in PA

Professional Associations

American Institute of Architects

LEED Accredited Professional

Historic Renovations

- **21c Museum Hotel**, Cincinnati, OH – Restoration of historic downtown hotel for new upscale 160 room hotel
- **21c Museum Hotel**, Lexington, KY - Restoration of the historic First Bank Tower and three adjacent annexes in Lexington, KY into a hybrid art museum / restaurant / hotel.
- **21c Museum Hotel**, Nashville, TN – Conversion of 120,000 sf historic 7-story Gray & Dudley Hardware Building in downtown Nashville to an upscale hotel.
- **Cincinnati Music Hall Rehabilitation and Part 2 Tax Credit Application**, Cincinnati, OH — After coordinating the client's competitive application for \$25M in "Catalyst Grant" funding, PWWG led the restoration and upgrade of this iconic 225,000 sf performance venue.
- **Cincinnati Music Hall Renovation and Expansion of Cincinnati Symphony Orchestra Offices**, Cincinnati, OH — Complete redesign of 12,440 sf. South Hall to accommodate increased staff, improve operations efficiency, and introduce natural light to the cavernous space. PWWG designed an open floor plan, co-locating teams working on diverse operations to support a variety of work needs.
- **Oglebay Hall & Ming Hsieh Hall, West Virginia University**, Morgantown, WV — 55,000 sf historic renovation and 20,000 new building, LEED.
- **Drake Well Museum**, Titusville, PA — 21,000 sf Renovation and lobby addition.

General Renovations

- **Adamson Wing Renovation, Carnegie Mellon University**, Pittsburgh, PA — In progress lecture hall renovation with supporting breakout spaces.
- **Porter Hall Classroom Renovation, Carnegie Mellon University**, Pittsburgh, PA – In progress renovation of 19 registrar classrooms.
- **Carr Hall, Allegheny College**, Meadville, PA – 40,000 sf renovation for Environmental Sciences; LEED Gold for Commercial Interiors.
- **4700 Fifth Avenue Student Apartments, Phase 1 & 2, Carnegie Mellon University**, Pittsburgh, PA — Fast-track conversion of a former nursing home into student apartments.

Jessica Stuck, AIA

Associate | Perfido Weiskopf Wagstaff + Goettel

Role in the WV Building 4 Renovation:
Project Architect



Jessica began her professional career in upstate New York working on historic preservation projects including rehabilitation of the iconic Rotunda at the University of Virginia, rehabilitation of the Vanderbilt Mansion exterior, and restoration of historic churches in eastern New York and western Massachusetts. Since joining PWWG in 2014, Jessica has maintained her focus in preservation, restoration, and the adaptive reuse of existing buildings as Project Architect or Project Manager on several landmark structures. She has also applied her skills in 3D modeling, document production, and coordination to the firm's higher education, contemporary housing, and workforce training projects. Jessica is active in teaching architecture at the university level, mentoring intern architects, and presenting her preservation research at national conferences. She volunteers in various capacities with local organizations in the building and preservation trades.

Education

Kent State University
Master of Architecture,
2013
B.S. in Architecture,
2012
B.A. in History, 2012

Registration OH

Professional Associations

American Institute of Architects
CSI Construction Documents Technologist (CDT)
Kent State University, Instructor in Preservation courses and Critic for Undergraduate and Graduate Studios, 2013-present
Pittsburgh History and Landmarks Foundation, Mentor for High School Students
Association for Preservation Technology Conferences Presenter

Historic Renovations

- **Allegheny County Courthouse Facilities Planning**, Pittsburgh, PA – Worked with a team of experts to define projects to preserve, restore, and renew this Historic Register building designed by H. H. Richardson for another century of use; scope included interior and exterior work, and integrating new, sustainable systems.
- **Allegheny County Courthouse Roof Replacement and Tower Renovation**, Pittsburgh, PA Restoration of masonry on the main and courtyard towers and replacement of the original, historic clay tile roof in kind and low slope roof with copper roofs.
- **21c Museum Hotel**, Nashville, TN – conversion of the 7-story 120,000 sf historic Gray & Dudley Hardware Building in downtown Nashville to a boutique hotel and art museum.
- **Roxian Theatre Restoration and Adaptive Reuse**, McKees Rocks, PA – Forensic investigation and comprehensive rehabilitation of an Art Deco theater to a live music venue.
- **Old Economy Village**, Ambridge, PA – A variety of projects to restore and preserve facilities at a Harmonist village designated as a National Historic Landmark.
- **Union Trust Building Restoration and Adaptive Reuse**, Auditorium Restoration Study, Pittsburgh, PA – Restoration and adaptive reuse of 11-story Historic Register building for office space.

General Renovations & Forensic Assessments

- **Porter Hall Classroom Renovations**, Carnegie Mellon University, Pittsburgh, PA – Modifications to existing layouts, upgrades to finishes, electrical, mechanical, and A/V systems in 19 registrar classrooms.
- **Adamson Wing Renovation**, Carnegie Mellon University, Pittsburgh, PA – Complete demolition and renovation to an existing underground 2,000 sf lecture hall and entrance lobby in Baker Hall.
- **Lecture Hall Renovation Studies**, Carnegie Mellon University, Pittsburgh, PA – Study to evaluate prospects for interior renovations to lecture halls in three historic buildings on campus.
- **Resnik and West Wing Dormitories Forensic Investigation and Repairs**, Carnegie Mellon University, Pittsburgh, PA – Worked with a structural engineer to determine causes of leaks and failure of roof plaza over occupied space between two dormitory buildings on campus. Prepared construction documents for all necessary remedial work following study.

Joseph Filar, RA, LEED AP

Senior Associate | Perfido Weiskopf Wagstaff + Goettel

Role in the WV Building 4 Renovation:

Quality Assurance / Quality Control



Joe began his professional career working in New York City, first for Castro-Blanco Piscioneri and Associates and then for Carpenter/Grodzins. He moved back to Pittsburgh in 1999, joined Perfido Weiskopf Architects as an intern architect, and became an associate of the firm in July 2003. Joe has a broad range of design experience 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.

Education

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

Registration PA

Professional Associations

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

Historic Renovations

- **West Virginia Capitol Building Three**, Charleston, WV — Renovation and reuse of a historic office building.
- **Union Trust Building Restoration and Adaptive Reuse, Auditorium Restoration Study**, Pittsburgh, PA — restoration and adaptive reuse of the theater/auditorium of an 11-story landmark building.
- **4830 Hatfield St Residences**, Pittsburgh, PA — Rehab and adaptation of a 10,000 sf 1874 Historic Register school in a residential neighborhood for 11 apartments.
- **21c Museum Hotel**, Durham, NC — conversion of historic 17-story Hill Building in downtown Durham to an upscale 120 room hotel .
- **Pennsylvania Capitol Restoration**, Harrisburg, PA — Multi-phase restoration of the 1906 state capitol building on the National Register, including the roof, domes, cupolas, masonry, windows, and exterior paving, and regilding of the ornate "Commonwealth" statue atop the main dome.
- **Pennsylvania Capitol Peristyle Deck** Harrisburg, PA – Investigation, analysis and design for waterproofing the exterior peristyle walkway at the base of the 52M ton ornate dome of the 1906 state capitol building on the National Register.
- **819-821 Liberty Avenue Survey**, Pittsburgh, PA – Survey of existing historic building in Pittsburgh's Cultural District for renovation as an upscale hotel.
- **Becht Hall, Clarion University** – 53,000 sf historic renovation for a Student Success Center, LEED Silver goal.
- **Oglebay Hall & Ming Hsieh Hall, West Virginia University** – 55,000 sf historic renovation and 20,000 new building, LEED Certified.
- **Dixie Cup Factory Lofts**, Easton, PA – 588,000 sf historic factory renovation into +/- 300 one and two bedroom units.
- **Courtyard by Marriott Hotel**, Pittsburgh, PA – conversion of 9-story historic building into a 182-room downtown hotel.

General Renovations

- **R. B. Harrison Village**, McKeesport, PA – Conversion of 3 story walkups to townhouse apartments
- **Three Rivers Center for Independent Living**, Wilkinsburg, PA – Conversion of a nursing home into a disability center.
- **Pittsburgh International Airport**, Pittsburgh, PA – Addition of private/public elevators in the airside terminal.

Tower Firm Overview

Role in the WV BUILDING 4 RENOVATIONS: MEP/FP Engineering



Tower Engineering has been providing innovative mechanical, electrical, plumbing, and fire protection solutions since 1931. While Tower is a generalist firm, it primarily serves the K-12 and higher education, healthcare, senior living, hospitality and recreation sectors in both renovations and new construction. The firm's highly-trained staff of project managers, designers, and technical support personnel is capable of providing consulting services for every type of project - from a small, single-family residence to a high tech research facility incorporating redundant mechanical and electrical systems, DDC energy management and thermal storage.

Our engineers utilize state-of-the-art software programs for the design of lighting, electrical power and mechanical systems. Lighting analysis includes point-by-point calculations, ESI analysis, exterior lighting analysis, and life cycle cost comparisons. Electrical power analysis includes fault current and load flow analysis.

Mechanical design and analysis services include energy economy analysis, thermal storage analysis, heating and cooling load calculations, refrigerant piping design, water system designs, along with BIM modeling. Our professional staff utilizes computer selection of air handling units, coils, pumps, terminal devices, fans, cooling towers, chillers, heat exchangers, kitchen hoods, hydronic and steam specialties, humidification equipment and heat recovery equipment.

Sustainability principles are considered at every design point, and firm principals personally lead every project. The firm has 29 employees, including ten (10) Registered Professional Engineers and eight (8) LEED Approved Professionals

HVAC

- Heating and cooling system design
- Ventilation system design
- Building automation systems
- Control systems and energy monitoring
- Geothermal system analysis and design
- Heat recovery systems
- Kitchen and laboratory exhaust systems
- Smoke evacuation systems
- Computer room environmental control systems
- Building commissioning services

ELECTRICAL

- Interior and exterior lighting design and studies
- Lighting controls
- Primary and secondary voltage power distribution systems
- Fire detection and alarm systems
- Computer data and power systems
- Uninterruptible power supply systems
- Reinforced and masking sound systems
- Lightning protection systems
- Fault current studies
- System over-current protection coordination
- Security systems

TELECOMMUNICATIONS

- Voice communication systems
- Data network systems

PLUMBING

- Water resource efficiency analysis
- Sanitary drainage systems
- Storm water management
- Domestic water systems
- Waste water treatment systems
- Hospital and laboratory piping systems
- Fuel oil piping systems
- Irrigation systems

FIRE PROTECTION

- and pipe and sprinkler systems
- Fire protection systems

COMMISSIONING

- New Construction Commissioning
- Renovation Commissioning
- Retro-commissioning
- Recommissioning
- Value Recommissioning

115 Evergreen Heights Drive, Suite 400, Pittsburgh, PA 15229

412-931-8888

estower.com

Tower Firm Overview (cont.)

Role in the WV BUILDING 4 RENOVATIONS: MEP/FP Engineering



MEP Design for Offices

Tower Engineering's expertise in the design of corporate facilities affords us the confidence to look beyond the mere technical challenges to the personal and social aspects of the built environment. We understand the importance of designing electrical and mechanical systems that enhance the creative environment. We design mechanical and electrical systems that are cost-effective and energy efficient.



- 300 Oxford Building and 400 Oxford Building
- AAA West Penn
- Aerotech Corporation
- Alcoa Shared Services
- American Eagle Outfitters
- Applied Concepts, Inc.
- Automatic Data Processing Corp
- Bayer Corporation
- Bell Telephone Headquarters Building
- Black Box Corporation
- Blue Cross of Western Pennsylvania
- Canaan Valley Institute
- Cardiac Assist Associates
- Carpenters Union Headquarters
- Chatham Office Center
- Cherrington Bldgs #200, #300, #400, #500 and #600
- Commerce Court
- The Conair Group World Headquarters
- Cranberry Woods
- Cutler/Hammer Headquarters
- Dickerson Office Building
- Dollar Savings Bank
- Duquesne Light Co.
- E.G. Smith Headquarters
- Eickhoff America Corporation
- Federal Office Building, Pittsburgh
- Fisher Scientific Headquarter
- Gatan Corporation
- General Telephone Co.
- Glidpath Office Building
- Mine Safety Appliances Company
- Mobay Corporation
- National City Bank
- New Enterprise
- North Pittsburgh Telephone Company
- OCMET Corporation
- Olsten Health Centers
- Peoples Natural Gas
- Pittsburgh Board of Education
- Pittsburgh Vision Services
- PPG
- Quantum Computer Office/Warehouse
- Respirationics
- Ryan Homes
- Scientific Systems Services
- Swanson Land Office
- Thorn Hill Marketing & Printing
- Westinghouse Electric Corporation

115 Evergreen Heights Drive, Suite 400, Pittsburgh, PA 15229

412-931-8888

estower.com



JAMES N. KOSINSKI, PE, LEED AP

**PRINCIPAL, VICE PRESIDENT
SENIOR PROJECT MANAGER, MECHANICAL ENGINEERING**

Mr. Kosinski's primarily responsible for the design of HVAC systems and their components for all of Tower Engineering's projects. He has experience with the design of numerous types of HVAC systems, including constant and variable air volume air handling, geothermal heat pump and exhaust systems; chilled water and hot water; electric/electronic, pneumatic and DDC control systems.

Jim's design responsibilities include load calculations, equipment selection, system layout, project specifications, cost estimates, direction of project drafting efforts, coordination with other engineering disciplines, and construction administration. Additional responsibilities include system analysis and energy studies, client contact, and project management and scheduling. He has performed energy conservation analyses, evaluated HVAC system performance, and justified the installation of DDC control systems and other energy saving measures. As a Mechanical Engineering Group Leader, Mr. Kosinski coordinates the efforts of a team of staff engineers, designers and CAD operators.

EDUCATION

Bachelor Architectural Engineering
The Pennsylvania State University, 1989

REGISTRATION

PE, Pennsylvania

PE [REDACTED]

PE, West Virginia [REDACTED]

PE [REDACTED]

PE, New York

PE, Maryland

NCEES Registered

LEED Accredited Professional
2009

AFFILIATION:

American Society of Heating,
Refrigeration & Air Conditioning
Engineers (ASHRAE)



West Virginia University

Current Term Contract

WVU Tech Interior and Exterior Renovations

Recreation Center

Brooks Hall - Lab Renovation

Honors Hall Dormitories

Law Building Phase I, II and III

Parkersburg Applied Technology Center (Parkersburg, WV Campus)

Fairmont State University - Fairmont, West Virginia

Engineering Technology

Multiple HVAC Systems Studies in Multiple Buildings

Electro-Optics Center Addition

Musik Library Renovation

Fairmont, West Virginia

Public Safety Building Renovations

Allegheny Energy - Fairmont, West Virginia

New Operations Center (LEED)

Department of Energy - Morgantown, West Virginia

New Record Storage Facility (LEED)

Morgan County Board of Education - Bath, West Virginia

Berkeley Springs High School Renovation/Addition



EDUCATION

BS Mechanical Engineering
Penn State University 1982

REGISTRATION

PE, Pennsylvania
[REDACTED]

PE, West Virginia
[REDACTED]

PE, New York

NCEES Registration

LEED Accredited Professional
2009

AFFILIATION

American Society of Heating,
Refrigeration & Air Conditioning
Engineers (ASHRAE)
Pittsburgh Chapter, Past President



THOMAS J. GORSKI, PE, LEED AP

PRINCIPAL, PRESIDENT MECHANICAL ENGINEERING DEPARTMENT HEAD

Mr. Gorski's primary responsibilities are the design of HVAC systems and their components for schools, universities, commercial and light industrial office buildings, laboratory buildings, health care facilities, and military facilities. He has designed HVAC systems including constant and variable air volume, air handling and exhaust systems; chilled water and hot water systems and steam distribution systems; electric/electronic control, pneumatic control and DDC systems.

Tom's design responsibilities include load calculations, equipment selection and system layout, project specifications, cost estimates, direction of the project drafting effort, coordination with architectural and other engineering disciplines, and construction administration. He also performs system analysis and energy studies, maintains client contact, and supervises the engineering effort of the Mechanical Engineering groups.

REPRESENTATIVE EXPERIENCE

BridgeValley Community and Technical College
Restoration/Renovation

West Virginia University - Morgantown, West Virginia

Current Term Contract

WVU Tech - Interior and Exterior Renovations

New Intermodal Transportation Center

New Student Recreation Center

Student Recreation Center Building Commissioning

Caperton Center for Applied Technology

Parkersburg Applied Technology Center (Parkersburg, WV Campus)

Fairmont, West Virginia

Allegheny Energy New Operations Center

Fairmont State University - Fairmont, West Virginia

Engineering Technology Building

Berkeley County Board of Education - Inwood, West Virginia

Musselman High School (new)

Musselman Middle School Renovation/Addition

Potomack Intermediate School (new)

Clay County Board of Education - Clay, West Virginia

High School Auditorium/Classroom Addition



EDUCATION

BS. Mechanical Engineering
Penn State University 1997

REGISTRATION

Professional Engineer, PA
2003

Certified in Plumbing
Engineering (CIPE), 1998

LEED Accredited Professional
2009



MICHAEL S. PLUMMER, PE, CIPE, LEED AP

PRINCIPAL, SENIOR PROJECT MANAGER PLUMBING & FIRE PROTECTION ENGINEERING DEPARTMENT HEAD

Mr. Plummer is primarily responsible for the design of plumbing and fire protection systems and their components for educational, governmental, and commercial buildings. His plumbing duties include the design and layout of all domestic hot and cold water, sanitary drainage and storm water management systems. He is also responsible for the natural gas piping systems along with specialty systems involving laboratory or hospital gases. Mike's fire protection responsibilities include the design of water supply and pumping systems involving fire mains and sizing of fire pumps, the layout of standpipe and sprinkler zone locations, sprinkler head placements and reviewing hydraulic calculations for contractor designed sprinkler systems. He is a LEED Accredited Professional and designs all his projects with sustainability in mind.

Mike's duties include preparation of project specifications, cost estimates, project management, and coordination with architectural and other engineering disciplines. He also performs construction administration duties including review of submittals, preparation of punch lists, and field problem solving, as well as supervising the engineering efforts of the Plumbing and Fire Protection Department.

REPRESENTATIVE EXPERIENCE

West Virginia University - Morgantown, West Virginia

Current Term Contract

WVU Tech - Interior and Exterior Renovations

New Intermodal Transportation Center

New Student Recreation Center

Parkersburg Applied Technology Center (Parkersburg, WV Campus)

Fairmont, West Virginia

Allegheny Energy New Operations Center

Fairmont State University - Fairmont, West Virginia

Engineering Technology Building

Brooke County Board of Education - Follansbee, West Virginia

Hooverson Heights Primary School

Bethany Primary School

Cacapon Resort - Berkeley Springs, West Virginia

Lodge Renovation and Expansion



EDUCATION

BS Electrical Engineering
Case Western Reserve University
1997

REGISTRATION

Professional Engineer, PA
F [REDACTED]

AFFILIATION

Illuminating Engineering Society
of North America (IES) Treasurer
Pittsburgh Section

AWARD

IES Design Award of Merit 2003,
Ross Twp. Municipal Complex
Pittsburgh, Pennsylvania



T. STEFFANIE BAKO, PE, LEED AP

**PRINCIPAL, SENIOR PROJECT MANAGER
ELECTRICAL ENGINEERING DEPARTMENT HEAD**

Mrs. Bako provides engineering services for the design of office buildings, educational facilities, municipal buildings, community/recreational buildings and commercial facilities. Her primary responsibility is for the preparation of electrical opinions of cost, technical specifications, engineering drawings, field observation, and coordination with architectural and other engineering disciplines.

Steffanie's design responsibilities include lighting layout and fixture selection, including calculations and system coordination studies and calculations; computer rooms and associated support facilities; fire alarm and detection systems; emergency power, public address, audio-visual, security and closed circuit television systems. Additional responsibilities include client contact, field observation, and project management.

REPRESENTATIVE EXPERIENCE

Army National Guard - Fairmont and Buckhannon, West Virginia
New Readiness Centers

Canaan Valley Institute - Davis, West Virginia
New Office Building (LEED Silver)

West Virginia High Tech Consortium Office Building - Fairmont, West Virginia
Tenant Fit-ups

City of Fairmont - Fairmont, West Virginia
New Parking Garage
Municipal Building Renovations

Fairmont State University - Fairmont, West Virginia
Engineering Technology Building
Musick Library Addition and Renovations

Glenville State College - Glenville, West Virginia
Student Center Renovations

Harrison County School District - Clarksburg, West Virginia
New Lumberport Elementary School

Marion County School District - Fairmont, West Virginia
New Middle School

The Preview Group Firm Overview

Role in the WV Building 4 Renovations: Code Consulting



The Preview Group, Inc. is an architectural consulting firm specializing in building regulations and regulatory issues affecting construction. The genesis of the firm was the desire to become involved with the creation of design solutions that fit within the regulatory framework of a particular project. With over 30 years' experience, and offices in Cincinnati and the San Francisco Bay Area, Preview serves clients throughout the United States, from one-person firms to large practices, from public entities to private companies.

Preview provides regulatory assistance to those having general design and construction questions to others with specialty concerns such as those related to healthcare or ADA compliance. Our staff includes both architects and engineers, with experience as designers, code officials, trade organization representatives, and consultants – and all of our staff professionals have regulatory experience at the local, state, and/or national levels. Our goal is to assist our clients in achieving regulatory compliance in the most straightforward way.



Special Service Areas

- Strategy development and implementation for building regulations-related problem resolution
- Building and zoning appeals process support and representation
- Consultation and support services on regulatory, building regulations and specification issues including specialty areas.
- Ordinance, zoning, building regulations and regulatory development and processing
- Liaison/representation for private sector processing of development applications
- Expert witness testimony
- Development and implementation of training and educational seminars for users of building regulations in both the public and private sectors
- Contract plan review services for municipal and county jurisdictions

All members of Preview's technical staff participate in a wide variety of regulatory-related activities, including the development of the ICC family of codes (e.g., IBC, IFC, etc.), the NFPA codes and standards (e.g., NFPA 101, 5000, etc.) and construction-related standards at both the national and local levels. With active membership and participation in the developmental stage of regulations provides Preview with a unique level of insight and expertise in regulatory issues which allows Preview to bring a value to a project that others cannot. Preview applies the most current technical information and state-of-the-art design/construction concepts to every phase of a project which in turn results in a smoother permitting process and construction phase, which often provides an economic benefit.

Fire Protection

The extensive experience of Preview's consultants with current building and fire code regulations as well as their knowledge of the codes' historical development are key to their ability to assist clients in the development of fire protection and life safety programs. Preview's input includes development of alternative design solutions, often using performance-based design features, integration of fire alarm and suppression systems, and coordination or enhancement of fire protection features within a building, ultimately achieving code compliance for the client in a cost conscious manner. As part of the process, Preview's assistance also includes discussion with local code officials and third-party peer reviews.

Design Code Consulting

The Preview Group, Inc.
632 Race Street
Cincinnati, Ohio 45202

Qualifications / Project Team

The Preview Group Firm Overview

Role in the WV Building 4 Renovations: Code Consulting

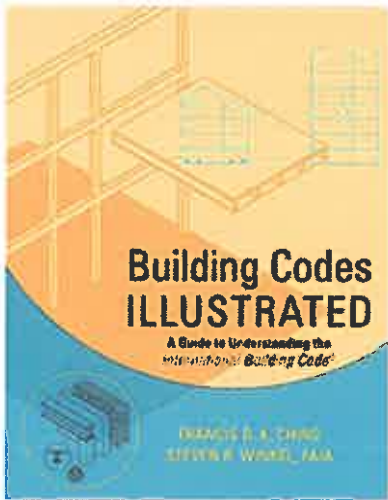


Preview's approach to design code consulting originates from the partners' extensive background in architecture, civil engineering, and code enforcement. Preview works with clients to arrive at timely solutions to code problems early in the design phase rather than trying to undo the pitfalls of incorrect decisions later in design or permitting process. Our clients include architects, designers, developers, builders, and owners, all of whom are looking to achieve regulatory compliance in the most straightforward way. We offer those solutions through various methods: investigating design options, negotiating with code authorities, taking issues to appeal, or finding a solution through code changes.



Code Development

Preview's consultants provide guidance to governmental agencies by participating on administrative and national committees, which review and make recommendations on code changes. Preview has represented local government, professional associations, trade organizations, and code organization committees at national code change hearings. These organizations include the American Institute of Architects (AIA), the International Code Council (ICC), the National Fire Protection Association (NFPA), the American National Standards Institute (ANSI), and the National Institute of Building Sciences (NIBS). Preview's consultants are currently serving on more than 30 codes and standards committees or subcommittees for these and other code organizations.



Publications

The architectural partners of The Preview Group, Inc. are all published authors of code-related books, publications, and articles. Steven R. Winkler, FAIA, PE and David S. Collins, FAIA co-authored the well received *Building Codes Illustrated* series published by John Wiley and Sons, illustrated by the nationally renowned Francis D.K. Ching along with Steven Jurosek. The Preview team is currently working with Steven Jurosek on a new *Residential Codes Illustrated* book. From 1995 to 2005, Dave and Gregory N. Nicholls, AIA co-authored *Know Your Code, A Guide to the OBC*.

Training

The Preview Group offers customized training for design professionals, building officials, and project owners in the use and interpretation of applicable codes (building, fire, mechanical, plumbing, energy conservation, existing buildings, and accessibility). Preview's courses range from introductory sessions to in-depth, all-day seminars, customized for a particular audience. Preview's seminars not only present relevant code information but also provide an interactive experience for the participants. The Preview Group, Inc. is a Registered Continuing Education Provider under the AIA Continuing Education System and may grant CES credits for AIA membership and license renewal.

Legal Consulting

Preview's legal consulting services include case document review, researching relevant code materials, preparing reports of findings, and providing expert witness testimony. The extensive code experience of Preview's consultants has been vital in the resolution of numerous legal cases. Case experience and references are provided upon request.

Accessibility

The Preview Group Firm Overview

Role in the WV Building 4 Renovations: Code Consulting



Preview's partners have monitored the development of ANSI A117.1 standard and jurisdictional regulations since the mid-1980's, and the Federal Americans with Disability Act (ADA) legislation since its enactment in 1992 [including the original Americans with Disabilities Act Accessibility Guidelines (ADAAG) and the 2010 Accessible Design Standards]. Preview's team members have long-term personal and professional experience with the evolution of accessibility requirements and their application to new and existing situations. This exceptional understanding of the barriers to access allows the firm to prepare facility reviews that take into account federal and local regulations necessary for compliance. Preview's experience with accessibility issues extends beyond client reports to include seminars and publications on the subject.

Contract Plan Review

Preview's founding partners were design architects and building officials. Today's staff includes architects and engineers, several of whom are certified building officials and/or plans examiners. This combination of design and technical expertise coupled with an understanding of the government process allows Preview to bring a unique perspective to the contract plan review services it provides to jurisdictions and clients, and the code-related input it gives to architects, owners, and designers. Public agencies and private sector clients alike appreciate the partners' extensive code knowledge of egress, structural, mechanical, electrical, plumbing, fire protection, and accessibility compliance requirements.

Peer Review – QA/QC

Preview provides peer review of plans and specifications for design professionals and project owners to help assure construction document quality. These reviews occur at critical stages of each design phase, ideally at the 80-90% completion stage of each phase. This schedule allows each phase to be complete enough for meaningful review of the project documents while leaving enough time for the incorporation of Preview's comments into the documents at the completion of each phase. Preview's consultants typically review the architectural plans and specifications page by page in detail for internal consistency, detailing, and completeness. Preview also reviews the work of other project design disciplines for coordination and consistency between their work scope and architectural documents.

Hazardous Material Assessment

Preview's consultants provide assistance in the identification and classification of hazardous materials in order for its clients to achieve compliance with applicable regulations. Buildings used to store, dispense or process hazardous materials ("hazmat") are governed not only by unique building and fire code regulations, but also by NFPA standards, OSHA and insurance underwriters. Preview works closely with clients to ensure that there is a thorough understanding of the materials, the risks they may present, and the applicable regulations that govern their storage or processing. Preview's assistance may include working with the client to develop an enhanced building design or heightened fire protection features, and coordination with the local fire department.

Sarah Rice, CBO

Principal | The Preview Group, Inc.



Role in the WV Building 4 Renovation:
Principal-in-Charge, Code Consulting

The Preview Group, Inc.
632 Race Street
Cincinnati, Ohio 45202

tel 513.621.2109
fax 513.621.7297
email srice@preview-group.com



Profile

Sarah joined the firm in 2009 in the Cincinnati office. Ms. Rice has been actively involved in the regulatory arena for more than 25 years, addressing a broad spectrum of project issues ranging from life safety and fire protection to hazardous material assessment. Sarah's engineering experience includes working as technical staff for one of the three legacy model code organizations and as a project manager for one of the nation's leading fire protection engineering firms. Sarah's understanding of the risks and hazards associated with the various aspects of a project, allows her to formulate credible solutions taking into account the intricacies of construction. Sarah is very active in the code development process at the local, state, and national level sitting on various technical and development committees for both the International Code Council (ICC) and the National Fire Protection Association (NFPA). With her extensive codes and standards development background, Sarah has and continues to not only assist the design community in the development of projects, but also develops and delivers seminars on building and life safety code topics.

Certifications/Registrations

International Code Council (ICC)

Certified Building Official - [REDACTED]

Affiliations and Memberships

American Institute of Architects (AIA)
American Society of Healthcare Engineers (ASHE)
American Society of Civil Engineers (ASCE)
International Code Council (ICC)
National Fire Protection Association (NFPA)
Society of Fire Protection Engineers (SFPE)

Code and Regulatory Activities

International Code Council

Code Technology Committee (CTC)

Unenclosed Exit Stairs Study Group (2007-Present)

Balanced Fire Protection Study Group/Vertical Openings Task Group (2007-2010)

International Building Code (IBC)

General Code Development Committee (2004-2011)

Building Code Action Committee (2017 Present)

International Fire Code (IFC)

Code Development Committee (2011-Present)

Liaison to International Existing Building Code Ad-hoc Committee (2004-2006)

Liaison to International Performance Code Ad-hoc Committee (2000-2003)

Sarah Rice, CBO

Principal | The Preview Group, Inc.



Code and Regulatory Activities (cont.)

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Cincinnati, Ohio 45202

tel 513.621.2109
fax 513.621.7297
email srice@preview-group.com

National Fire Protection Association

NFPA 101 Technical Committee on Mercantile and Business Occupancies (BLD-MER, SAF-MER) (2010 – Present)

NFPA 203 Technical Committee on Building Construction; Roof Coverings and Roof Deck Constructions (2004-Present)

NFPA 220 Technical Committee on Building Construction; Types of Building Construction (2004-Present)

NFPA 221 Technical Committee on Building Construction; High Challenge Fire Walls and Fire Barrier Walls (2004-Present)

NFPA 703 Technical Committee on Building Construction; Standard for Fire-Retardant Treated Wood and Fire-Retardant Coatings for Building Materials (2004-Present)

NFPA 5000 Technical Committee on Building Construction; Building Construction and Safety Code (2002-Present)

NFPA 720 Technical Committee on Carbon Monoxide Detection; Standard for the Installation of Carbon Monoxide(CO) Detection and Warning Equipment (2000-2007)

National Institute of Standards and Technology (NIST)

National Construction Safety Team (NCST) Advisory Council (2011 – Present)

Ohio Board of Building Standards

Education Ad-Hoc Committee (2010 – 2013)

Seminars

ICC International Codes

ICC International Building Code (IBC)

Introduction to the IBC (2000 - 2012 editions)

IBC Update seminars (2003-2012 editions)

Special and Mixed Occupancies in the IBC

IBC Non-structural Plan Review / Structural Plan Review

Fire Protection Aspects of the International Building Code

Fundamentals of Means of Egress

IBC – UBC, BOCA & NFPA 101 Comparison

ICC International Fire Code (IFC)

Introduction to the IFC (2003-2012 editions)

Update seminars (2006-2015 editions)

Hazardous Materials in the IFC

Introduction to Fire Protection Features and Systems

Existing Building Provision in the IFC

ICC International Energy Conservation Code (IECC)

2009 IECC – The Path to Compliance (State of NJ)

2007 ASHRAE 90.1 – The Path to Compliance (State of NJ)

Special and Mixed Occupancies

Non-structural & Structural Plan Review

Special Inspections

Accessibility

Fire Protection Aspects of the Building Code

Overview of Hazardous Materials

Fire Prevention Code (BNFPC)

Update seminars

Overview of the Fire Prevention Code

Existing Building Code (BNEBC)

Overview of the Existing Building Code

Sarah Rice, CBO

Principal | The Preview Group, Inc.



Professional History

The Preview Group, Inc.

Project Manager (2009-present)

- Life Safety/Fire protection assessment & Accessibility compliance
- Development of equivalencies/performance-based solutions & AHJ negotiations
- NFPA Fire Safety Evaluations (FSES)
- Hazardous material evaluation and assessment
- Development and delivery of educational seminars

Schirmer Engineering Corporation

Director of Professional Development (2008-2009)

Project Manager/Engineering (1999-2008)

- Liaison to ICC & NFPA Code Development Activities
- Life Safety/Fire protection assessment & Accessibility compliance
- Development of equivalencies/performance-based solutions
- AHJ negotiations
- NFPA Fire Safety Evaluations

International Code Council (ICC)/Building Officials and Code Administrators Intl. (BOCA)

Manager – Standards & Code Development (1988-1999)

- Technical production of the ICC International Codes and Commentaries
- Technical production of the BOCA National Codes and Commentaries

Professional Development (1986-1999)

- Development and delivery of educational seminars (BNBC ICC-Codes)

Technical Staff (1984-1988)

- BOCA Evaluation Services
- Development and delivery of educational seminars (BOCA)

Brighton Engineering

Transportation Engineering (1983-1984)

Baldwin Engineering

Clinton Nuclear Power Plant Engineering Maintenance (1982-1983)

Education

University of Illinois, BS/Civil Engineering, Structural(1982)

Rock Valley College (Rockford, IL), AS (1980)



Gregory Nicholls, AIA

Principal / Vice President | The Preview Group, Inc.

Role in the WV Building 4 Renovation:
Project Manager; Code Consulting

The Preview Group, Inc.
632 Race Street
Cincinnati, Ohio 45202

tel 513.621.2109
fax 513.621.7297
email gnicholls@preview-
group.com



Profile

As a founding member of the firm, Greg has handled much of the plan review and research services for many of the firm's projects. His expertise on the life safety code and national fire codes has been instrumental in many of the large assembly projects. Maintaining a major presence within the enforcement community and working to expand cooperative solutions for our firm and our clients, Greg offers insight and a perspective rarely found in an architectural firm.

Certifications/Registrations

Registered Architect, State of Ohio - Certificate No. [REDACTED]

State of Ohio, Board of Building Standards

Building Official, Master Plans Examiner, Residential Building Official & Inspector

CABO Certificate No. [REDACTED]

ICC Plan Exam Certifications (current)

Building Electrical

Mechanical Plumbing

Significant Awards

Southwestern Ohio Building Officials Association

2003 Code Official of the Year

Ohio Board of Building Standards Constituent Code Scoring Advisory Group

Certificate of Service, 2010 and David Denison Award

Affiliations and Memberships

American Institute of Architects (AIA)

AIA Ohio

AIA Cincinnati

International Code Council (ICC)

Ohio Building Officials Association (OBOA)

Southwestern Ohio Building Officials Association (SWOBOA)

Code and Regulatory Activities

International Code Council

International Building Code General Committee (2008-2017)

International Building Code – Means of Egress Committee (2018 – present)

Building Code Interpretation Committee (2006-2007) (2014-present)

Ohio Building Officials Association

International Codes Council Means of Egress Committee

Chairman (1998-2004)

Code Change Committee, Chairman (1994-1997)

Board of Directors, (1994-1996)

AIA National

Codes and Standards Committee (1988-1997)

Codes and Standards Task Unit (1988-1990)

Gregory Nicholls, AIA

Principal / Vice President | The Preview Group, Inc.



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Publications

Thomson West

Know Your Code: A Guide to the OBBC, Co-author (1995-2005)

OBBC, Index and Cross References, (1989, 1994)

Ohio Accessibility Guidelines (1993)

Ohio Department of Human Services

Child Care Manual, Co-author

Seminars

The Preview Group, Inc.

Ohio Board of Building Standards Certified Instructor for:

- Ohio Code Academy
- Ohio Building Code (2002)
- Ohio Accessibility Guidelines
- OBBC Updates (1986, 1989)
- Mechanical Code Review
- Overview of the OBBC
- Existing Buildings

Experience

The Preview Group, Inc.

Vice-President (1986-present)

City of Mason, Ohio

Chief Building Official, retired (1995-2014)

Project Manager, Mason Municipal Building, Mason Community Center Addition,

Mason Service Center Renovation

City of Cincinnati Building Department

Senior Plans Examiner (1984-1995)

Hamilton County Building Department

Plans Examiner (1983-1984)

Palantir Designwerks, Inc.

Owner (1981-1986)

Henry A. Lurie & Associates, Inc.

Architect (1981-1983)

Robert W. Doran & Associates

Architect (1980-1981)

HAI Architects/HCM Construction Co.

Intern Architect/Construction Assistant (1978-1980)

Education

University of Cincinnati, BS/Arch (1980)



David Collins, FAIA, NCARB

Principal / President | The Preview Group, Inc.

Role in the WV Building 4 Renovation:
Project Manager, Code Consulting

The Preview Group, Inc.
632 Race Street
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fax 513.621.7297
email dcollins@preview-group.com



Profile

A founding member of the firm, Dave has had a hand in most major projects, particularly the large university and building development projects. His extensive experience in numerous code-related organizations and activities, as well as his work on a wide spectrum of projects, is not only an invaluable asset to the firm and its clients, it has also garnered him a national reputation as an expert in codes and regulations. As consultant to the Codes Advocacy Program for The American Institute of Architects since 2000, he has participated in committee work for the International Code Council, National Fire Protection Association, Green Building Institute, Underwriters Laboratories, and the National Institute of Standards and Technology, among others. Dave's active involvement at all levels of the code development process allows him the opportunity to influence decisions that affect the regulatory environment throughout the United States, both now and in the future.

Certifications/Registrations

Registered Architect, Ohio, Kentucky, Washington, DC

State of Ohio, Board of Building Standards - Building Official,

ICC Certificate No. [REDACTED] Plans Examiner

National Council of Architectural Registration Boards - Certificate No. [REDACTED]

Significant Awards

International Code Council – Bobby J. Fowler Award (2017)

National Institute of Building Sciences (NIBS) – President's Award (2016)

AIA Ohio - Gold Medal (1996)

Architectural Foundation of Greater Cincinnati - Distinguished Service Award (1995)

Fellow of the American Institute of Architects (1994)

AIA State and Local Government Affairs Department - Award for "A Comprehensive Effort in Support of Qualifications-Based Selection" (1993)

AIA Ohio - President's Award (1992)

AIA Cincinnati - President's Award (1987)

Cincinnati Editors Association (1980 Publication Contest)

First Place, Graphics, Entire Publication, Other Publications for

"Fascinating, Spirited Cincinnati" (1980 AIA Convention Guidebook)

International Code Council (ICC) - Affiliate Award (2003), Honorary Member (2011)

Building Officials and Code Administrators (BOCA) - Albert H. Baum Award (2001)

Code Administrators Association of Kentucky - Patron of the Year (1994)

Ohio Building Officials Association - Associate Member of the Year (1992)

Southwestern Ohio Building Officials - Certificate of Appreciation (1985)

Building Officials of Northeast Ohio - Certificate of Appreciation (1984)

David Collins, FAIA, NCARB

Principal / President | The Preview Group, Inc.



The Preview Group, Inc.
632 Race Street
Cincinnati, Ohio 4 5202

Code and Regulatory Activities

National Green Building Standard (NGBS)

Consensus Committee (2012)

International Code Council (ICC)

Sustainability Energy High Performance Committee (2013-present)

Committee Chair 2016-Present

Industry Advisory Committee (2000-present)

Code Technology Committee (2005-2016)

International Existing Building Code Ad-hoc Committee (2004-2005)

International Existing Building Code Change Committee (2002-2003)

International Existing Building Code Development Committee (2000-2001)

National Fire Protection Association (NFPA)

NFPA 101 - Technical Committee on Means of Egress (2010-present)

Committee Chair 2015-Present

NFPA 220 & 221 - Technical Committee on Building Construction (2000-present)

NFPA 730 & 731 - Technical Committee on Premises Security (2002-present)

NFPA 5000 - Technical Correlating Committee (2000-present)

NFPA 5000 - Technical Committee on Structures & Construction (2000-present)

American National Standards Institute (ANSI)

GBI - 01/2005 General Committee (2006)

Underwriters Laboratories Inc. (UL)

Fire Council of Underwriters Laboratories (2004-2008)

National Institute of Standards and Technology (NIST)

National Construction Safety Team Advisory Committee (2003-2007)

High Performance Building Council (2006-present)

Building Officials and Code Administrators International (BOCA)

Ethics Committee (1994-1997, 2000-2003)

Ad-Hoc Committee on Loads (1993-1998)

Code Interpretations Committee/One & Two Family Dwelling

Code Subcommittee (1995, 1997)

Ad-Hoc Committee on CABO Comparison (1991-1997)

Ad-Hoc Committee on Existing Structures (1991-1996)

Ad-Hoc Committee on High Hazard Uses (1988-1996)

Ad-Hoc Committee on Fire Protection Systems (1988-1989)

Ad-Hoc Committee on Mixed Building Uses (1986-1989)

Existing Structures Code Change Committee (1983-1984)

Code Interpretation Committee (1982-1983)

Ohio Board of Building Standards

Member of the Board (2014-Present)

Codes/Education/Certification Committees

Education Ad-hoc Committee (2002-2005)

Residential Construction Advisory Committee - Chairman (2002)

Ohio State University DACUM Panel - Building Officials Curriculum (1989-1993)

Sprinkler System Design Advisory Board - Chairman (1982-1985)

Ohio/NIBS (Ohio Council of the National Institute of Building Sciences (1980-present)

Board of Directors (1998-1999)

President (1982-83)

Treasurer (1981)

David Collins, FAIA, NCARB

Principal / President | The Preview Group, Inc.



The Preview Group, Inc.
632 Race Street
Cincinnati, Ohio 45202

American Institute of Architects (AIA)

National

Honorary AIA Jury (2003 & 2008)

Secretary (1999-2000)

Codes Task Force - Chairman (1999-2000)

Interior Design Task Force (1999)

IDP Committee (1996-1998) - Co-chairman (1996-1998)

Licensing Committee (1996-1998)

Regional Director (1995-1997)

Universal Accessibility Conference Planning Committee (1997)

AIA/ACEC Joint Committee (1996)

BP&R Committee Liaison (1996)

Building Performance and Regulations Committee (1980-present)

BCMC Liaison (1988-1991)

Task Group on Code Uniformity (1990)

Steering Committee (1985-1987) - Chairman (1987)

CABO Task Unit (1984)

BOCA Task Unit (1981-1983)

Committee on the Environment (1993-present)

State/AIA Ohio

Seal Law Task Group (1994-1995)

PAC Chairman (1993-1996)

President (1992); President-Elect (1991); Secretary (1989-1990)

Codes and Standards Committee (1979-1991, 1993-1995)

Chairman (1983-1985, 1989)

Technical Advisor (2000-present)

Ohio Governors Ad-Hoc Committee on Access for the Disabled

Architect Member (1987-1988)

Ohio Board of Building Standards Review Committee (1987-1988)

AIA Ohio Representative

Local/AIA Cincinnati

Historic Rehabilitation Guidelines Committee (1992-1993)

ADA Teleconference, Moderator (1992)

President (1987); Vice President (1986); Secretary (1984-1985)

Bookstore Committee Chairman (1981-1983)

1980 National Convention Committee

Tour Book Committee Chairman (1978-1980)

Design Committee Co-Chairman (1975-1977)

Publications

John Wiley & Sons, Inc.

Architects Guide to Professional Practice, Fourteenth Edition – 15.2 Building Codes and Standards (2010, 2012, 2017)

Building Codes Illustrated for Healthcare Facilities (2007)

Co-authors; Steven R Winkel, FAIA; David S. Collins, FAIA and Steven P. Juroszek, AIA

Building Codes Illustrated for Elementary and Secondary Schools (2007)

Co-authors; Steven R Winkel, FAIA; David S. Collins, FAIA and Steven P. Juroszek, AIA

David Collins, FAIA, NCARB

Principal/President | The Preview Group, Inc.



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email dcollins@preview-group.com

Thomson West

Ohio Basic Building Code

Editorial Advisory Board (1982-2005), Chairman (1990-2005)

Code News

Editor-in-Chief (1990-2005)

Know Your Code: A Guide to the OBC, Co-author (1995-2005)

Ohio Accessibility Guidelines (1993)

Ohio Department of Human Services

Child Care Manual, Co-author

Architectural Record

Practice Matters: "One building code . . ." (August 2001)

Construction Specifier

"Framing Arguments" (April 1993)

The Building Official and Code Administrator Magazine (March/April 1995)

Southern Building (March/April 1995)

Building Standards (May/June 1997)

"Wood Construction: A Reliable System of Standards and Quality Control", Co-author

Seminars

Department of Energy

Codes, Codes and More Codes for Existing Buildings (2015)

AIA Webinar – IgCC Next Steps (2014)

NFPA Convention – Building Heights and Areas (2014)

AIA St. Louis – Introduction to the IgCC (2013)

Gray Construction – Height and Areas, UBC vs. IBC (2012)

AIA Cincinnati

Fundamentals of Mixed Use and Occupancy (2013)

Means of Egress (2012)

Code Conundrums Parts I, II & III (2012-2017)

AIA National Convention – IgCC Effects on Practice (2012)

IgCC Workshop – Kentucky/Ohio (2012)

Experience

The Preview Group, Inc.

President and CEO (1986-present)

American Forest & Paper Association (AF&PA)

Midwest Regional Manager (1986-2000)

Portland Cement Association (PCA)

Regional Representative to BOCA (1984-1985)

Hamilton County, Ohio

Deputy Chief Building Official (1977-1983)

Glaser and Myers Architects (1975-1977)

Baxter Hodell Donnelly Preston, Inc. (1973-1975)

Education

University of Cincinnati, BS/Arch (1973)

Purdue University/Indianapolis, AAS/Arch (1968)

The Sextant Group Firm Overview

Role in the WV Building 4 Renovations: AV/IT/Security



Officially formed in 1995 to deliver digital media and acoustical consulting services, The Sextant Group now is distinguished as one of the United States' top technology consulting firms supplying independent planning, design, specification, and project management. The company services clients across North America in government, institutional, corporate, higher education, healthcare, performing arts, broadcast, and sports & recreation sectors.

Experienced in planning and designing spaces and systems for over 1800 projects and 600 owners in 45 states and 11 countries with recognized expertise in Strategic Technology Planning, Audiovisual/Multimedia/Broadcast Systems Design, Voice/Data/Video Telecommunications Networking, Security Assessment and Electronic Security Systems Design, Architectural Acoustics and Noise & Vibration Control, Studio/Theatrical Lighting Design, Healthcare Technology Planning and Design, and Faculty Support and Development.

The Sextant Group maintains offices in Atlanta, Boston, Columbus, Denver, Los Angeles, New York, Omaha, Phoenix, Pittsburgh, Raleigh, and Washington DC. For this pursuit, Pittsburgh PA will be the primary office.

The Sextant Group Differentiators

- As a purely independent consultant, we represent only the best interests of our client, providing objective, vendor-neutral counsel. While we work with virtually every major manufacturer of professional and high-end audiovisual and information communication technologies, systems and hardware, we do no sales, represent no products, and have no obligations to anyone other than you.
- Especially because of our independence and visionary leadership, The Sextant Group regularly is called upon to assist manufacturers and software developers in defining and developing new technologies, including product form factors, technical features and capabilities, security encryption requirements, and branding strategies. As a result of our status in the industry, we bring unrivaled working relationships with virtually every major manufacturer of professional and high-end audiovisual and information communication technologies, systems and hardware.
- We conduct Visioning sessions at the start of a project that help give you insight into technology trends and developments that not only could affect decisions on this project, but your view of technology perspective as a whole. The result is better-designed (i.e., efficient, cost-effective, future-proofed) meeting, conference, symposium, training, seminar, workshop and project facilities.
- Virtually 100% of key technical personnel hold advanced credentials in their respective disciplines, including audio systems, broadcast technologies, information technologies and project management. These include Registered Communications Distribution Designer (RCDD), Certified Technology Specialist (CTS), Certified Technology Specialist – Design (CTS-D), Certified Technology Specialist – Installation (CTS-I), and Leadership in Energy & Environmental Design (LEED).
- As a consultant specializing in the breadth of converged technologies, we offer a single point of contact for all low-voltage disciplines, delivering better team communication and interdisciplinary coordination.

The Sextant Group Firm Overview

Role in the WV Capitol Project: AV/IT/Security



Completed Work in West Virginia

Department of Veterans Affairs Medical Center, Clarksburg WV - Media Center

Animal Facility Annex, West Virginia University, Morgantown WV

Brooks Hall, West Virginia University, Morgantown WV

Mylan Distance Learning Center, West Virginia University, Morgantown WV

School of Journalism Media Innovation Lab, West Virginia University, Morgantown WV

Agricultural Sciences Lecture Hall, West Virginia University, Morgantown WV

Baseball Complex, West Virginia University, Morgantown WV

College of Law, West Virginia University, Morgantown WV

Engineering Science Building - East Wing, West Virginia University, Morgantown WV

Life Sciences Building, West Virginia University, Morgantown WV

Oglebay Hall, West Virginia University, Morgantown WV

White Hall Lecture Hall, West Virginia University, Morgantown WV

College Science Building, West Virginia Wesleyan, Buckhannon WV

Mary F. Shipper Library Renovation and Expansion, West Virginia University Potomac State College, Keyser WV

Media Arts Center, West Liberty University, Wheeling WV

Student Housing, West Liberty University, West Liberty WV

Highlands Center Educational Complex Planning, West Liberty University, West Liberty WV

Byrd Hall Academic Nursing Building, Shepherd University, Shepherdstown WV

Robert C. Byrd Center for Legislative Studies Auditorium Renovation, Shepherd University, Shepherdstown WV

Mollohan Campus Community Center, Glenville State College, Glenville WV

WPBY-TV Broadcast Facility, West Virginia Public Broadcasting Authority, Charleston WV

Paul Dooley, RCDD, CTS

AV/IT/Security | The Sextant Group

Role in the WV Building 4 Renovation:
Principal Consultant / Principal in Charge



Information Technology has been in his blood for over 30 years. From his first taste of operations and management for an independent telephone company, Paul has been immersed in the evolution of voice, data and video cabling, contributing to his ability to create innovative and sustainable building-wide cabling networks. As a respected technology leader, Paul's in-depth understanding and unparalleled experience with structured cabling and network electronics sets him apart in the telecommunications industry. Today, Paul oversees a team of RCDD-credited systems designers planning complex infrastructure for renowned corporations and civic institutions across the US.

PROJECT RESPONSIBILITIES

Leads the exploration of emerging technologies and the impact on the facility; determines strategic direction of technology solutions in support of client's business and technology objectives; leads technology team; acts as executive level contact for client.

CREDENTIALS & ASSOCIATIONS

Registered Communications Distribution Designer (RCDD) – highest level of certification in Telecommunications industry – by BISCI

Certified Technology Specialist (CTS) by InfoComm International

Building and Industry Consulting Services International (BICSI), member

EDUCATION

Bachelor of Science / Business Administration, Management Information Systems / Robert Morris University / 1993

PROJECTS

West Virginia State Capitol Building, Charleston WV
Historic Renovation with AV and Security Upgrades

City of Detroit, Detroit MI
Public Safety Headquarters Renovation

Veterans Affairs Medical Center, Ann Arbor MI
Campus Wide IT Assessment and Recabling

University of North Carolina, Charlotte NC
Campus Telecommunications/Wi-Fi Modernization

The Davis Company, Pittsburgh PA
Union Trust Building Security Historic Renovation

Tennessee State Capitol Complex, Nashville TN
Historic Renovation Physical Security Systems Upgrade

City of Norfolk, Norfolk VA
Slover Memorial Library Expansion and Historic Renovation

Free Library of Philadelphia, Philadelphia PA
Historic Renovation

Williams College, Williamsport MA
Stetson Library Historic Renovation and Expansion

State of Oklahoma, Oklahoma City OK
Capitol Building Historic Renovation – Security Systems





Combine his 15 years as security planner and designer with more than 20 years as an IT/telecom consultant, and there are not too many project challenges that Terry has not already seen and solved. Experienced with a broad spectrum of education, healthcare, corporate, retail and government projects, he is distinguished as that rare bird certified as both a Physical Security Professional (PSP) by ASIS International in 2012 on top of being BICSI-accredited RCDD since 2000. Facilities requiring a high level of technology for learning, communication, healing and collaboration are his specialty.

PROJECT RESPONSIBILITIES

Leads discussions of IT/telecom strategies in support of client's business and technology objectives; designs and specifies IT/telecom systems; creates infrastructure and systems drawings; performs site reviews.

CREDENTIALS & ASSOCIATIONS

Physical Security Professional (PSP)

Registered Communications Distribution Designer (RCDD) – highest level of certification in Telecommunications industry – by BICSI

Building Industry Consulting Service International (BICSI), member

ASIS International, the preeminent organization for security professionals, member

Buckeye Association of School Administrators (BASA), member

EDUCATION

Associate Degree / Electrical Engineering Technology / Univ of Akron / 1980

PROJECTS

City of Detroit, Detroit MI

Public Safety Headquarters Renovation

City of Norfolk, Norfolk VA

Slover Memorial Library Expansion and Historic Renovation

Tennessee State Capitol Complex, Nashville TN

Historic Renovation Physical Security Systems Upgrade

State of Oklahoma, Oklahoma City OK

Capitol Building Historic Renovation – Security Systems

City of Phoenix, Phoenix AZ

South Transit Facility Refurbishment

Capital University, Columbus OH

Loy Hall Historic Renovation

Durham County Government, Durham NC

Durham County Main Library Renovation

Google Fiber, Austin TX

Retail Facility Event Space Renovation



Moment Engineers, Inc. Firm Overview

Role in the WV Building 4 Renovations: Structural Engineering



Firm Name/Location: Moment Engineers, Inc.
179 Summers Street, Suite 603
Charleston, WV

Firm Structure: Corporation

Years In Business: 13

Principal: Douglas Richardson, PE, LEED AP

Firm Philosophy

Moment Engineers, Inc. is a professional consulting firm specializing in structural engineering, serving the architectural and building construction communities throughout West Virginia.

During his 30 years of experience, Mr. Richardson has had sole responsibility for the structural engineering design of more than 7 million square feet of built space, with construction costs in excess of a half billion dollars. His experience, ranging from small to very large multi-phase projects, is invaluable in providing the technical expertise and creative flexibility to deliver results in a prompt and reliable manner.

Building sectors served: WV higher education, WV state government, medical facilities, and commercial office buildings

Firm Capabilities: Design, forensics, and structural analysis for steel, concrete, masonry, and wood structures, for a variety of building types; construction administration services

Selected WV Projects

- WVU Parkersburg Child Development Center (with PWWG)
- WVU Parkersburg Applied Technology Center (with PWWG)
- WVU Tech Engineering Lab Building Foundation Assessment
- Marshall University Stadium Concourse Expansion
- Kappa Alpha Fraternity House, WVU
- West Liberty University Health Sciences Bldg (with PWWG)
- Mountaineer Challenge Academy
- Robert C. Byrd Regional Training Institute
- Advantage Valley Advance Technology Center
- WV State University Ferrell Hall Structural Assessment/Repair
- WV State University Jones Hall Structural Assessment/Repair
- Alderson Federal Prison Dormitory
- Judge Donald F. Black Courthouse Annex
- Pratt & Whitney Test Cell
- WV Hospital Association Office Building
- Camp Dawson - Regional Training Institute
- Glen Jean - AFRC
- Camp Dawson - AFRC
- Greenbrier Resort Golf Clubhouse Renovation



West Liberty University Campbell Hall Health Sciences Building (with PWWG)

Douglas Richardson, P.E., LEED AP
Principal | Moment Engineers, Inc.

Role in the WV Building 4 Renovations:
Principal Structural Engineer



Education

North Carolina State University,
Masters of Science in Civil Engineering,
Major in Structures Minor in Construction, 1989

West Virginia University,
Bachelor of Science in Civil Engineering, 1987

Registration: PE in West Virginia, [REDACTED]

Professional Associations

LEED Accredited Professional
American Society of Civil Engineers
American Institute of Architects, Professional Affiliate
Structural Engineering Institute

Relevant Experience — Renovations and New Construction

- West Liberty University Campbell Hall Health Sciences Bldg
- WVU Parkersburg Child Development Center
- WVU Parkersburg Applied Technology Center
- WVU Tech Engineering Lab Building
- Marshall University Stadium Team Store
- Mountaineer Challenge Academy
- Robert C. Byrd Regional Training Institute I
- Advantage Valley Advance Technology Center
- WV St. University Ferrell Hall Structural Assessment/Repair
- WV St. University Jones Hall Structural Assessment/Repair
- Alderson Federal Prison Dormitory
- Judge Donald F. Black Courthouse Annex
- Pratt & Whitney Test Cell
- WV Hospital Association Office Building
- Camp Dawson - Regional Training Institute
- Glen Jean - AFRC
- Camp Dawson - AFRC
- Greenbrier Resort Golf Clubhouse Renovation
- Contractor consultation for Clay Center Renovations
- Contractor consultation for Charleston Civic Center renovations



2

APPROACH / METHODOLOGY FOR BUILDING 4 RENOVATIONS

Approach / Methodology

Perfido Weiskopf Wagstaff + Goettel



PWWG's approach to each project is wide-eyed and open minded. Our goals are ultimately rooted in delivering the best possible solution to meet our client's expectations. At the very earliest stage of each project, PWWG is actively engaged in pooling our varied experience and expertise, internally and externally, to cast a wide net and develop a broad understanding of "the big picture". Our design team is ingrained with a **culture of collaboration** and energy and we look forward to engaging with all project stakeholders to **develop the best ideas, craft a shared project vision, and implement the best solutions.**

Building 4 presents its own **unique set of goals** and objectives. In particular, addressing the life safety fire protection and egress concerns in a manner that preserves the mid-century modern character is front and center. With that solution established, we work together with you to transform Building 4 into a workplace that is uplifting, healthy, and promotes productivity.



WWU Oglebay Hall facade investigation



site view from roof of Building 3

PART I — FACT FINDING

Listening

We begin each project by gathering information focused on two areas:

1. The client's organization
2. The physical site/building

Listening to the client includes getting to know the culture of their organization; understanding their specific needs, preferences, standards and protocols; and learning from their past experience including similar projects that may serve as precedents or prototypes.

- *PWWG will work with you to establish the structure of communication and approvals for the Building 4 Renovations—Who is included? At what points? How are input and feedback collected and conveyed? Clarity here instills confidence in both sides, and lays a path for a creative, iterative design process that brings your vision and goals to life.*

Understanding What You Have

Understanding the physical site or building involves spending time at Building #4 to learn how to work with and enhance the assets and overcome the deficiencies.

We apply intuition and a studied eye for considering what stays as-is, what gets renovated, and to what level, in order to achieve the client's overall goals for the project. The assessment applies to every aspect of the job— historic fabric, MEP, the envelope and roof, lighting, interior finishes, and so forth.

- *PWWG has decades of experience renewing old buildings, historic buildings and other architecturally significant buildings. We regularly works with the SHPO in West Virginia and surrounding states and have a proven development process for assessing the value of existing assets. We will help you decide what to preserve, what to refresh, and what to replace.*

Understanding What You Want

Understanding involves clearly and accurately developing and documenting the project program and developing the project requirements. It is done with an open mind to include a full range of "wants" and although budget is not ignored, it is momentarily set aside to ensure that good ideas are not immediately discarded.

- *PWWG is confident in coordinating complexity, distilling ideas into a clear program and discerning themes that will inspire design together with you to produce a comprehensive and cohesive project understanding.*

Establishing What You Need

Once the **information** has been gathered — existing conditions assessment, historic fabric, building code requirements — we understand the building and what you *have*. Once the **program** has been explored and **goals** have been established — design options, high performance mechanical systems, building efficiency and user flexibility — we know what you *want*. From there, we distill these "wants" into the must-have "needs" and reconcile those with the budget.



PWWG's Visioning Session for Design of the National Youth Science Camp in Davis, WV.

- *The vision ("wants") and functional goals ("needs") for the Building 4 Renovations are, of course, unique. PWWG is attentive and diligent in creating a **road map** to provide a **balance** between the "**wants**" and "**needs**", essential to a successful project.*

PART 2 — EXPLORING

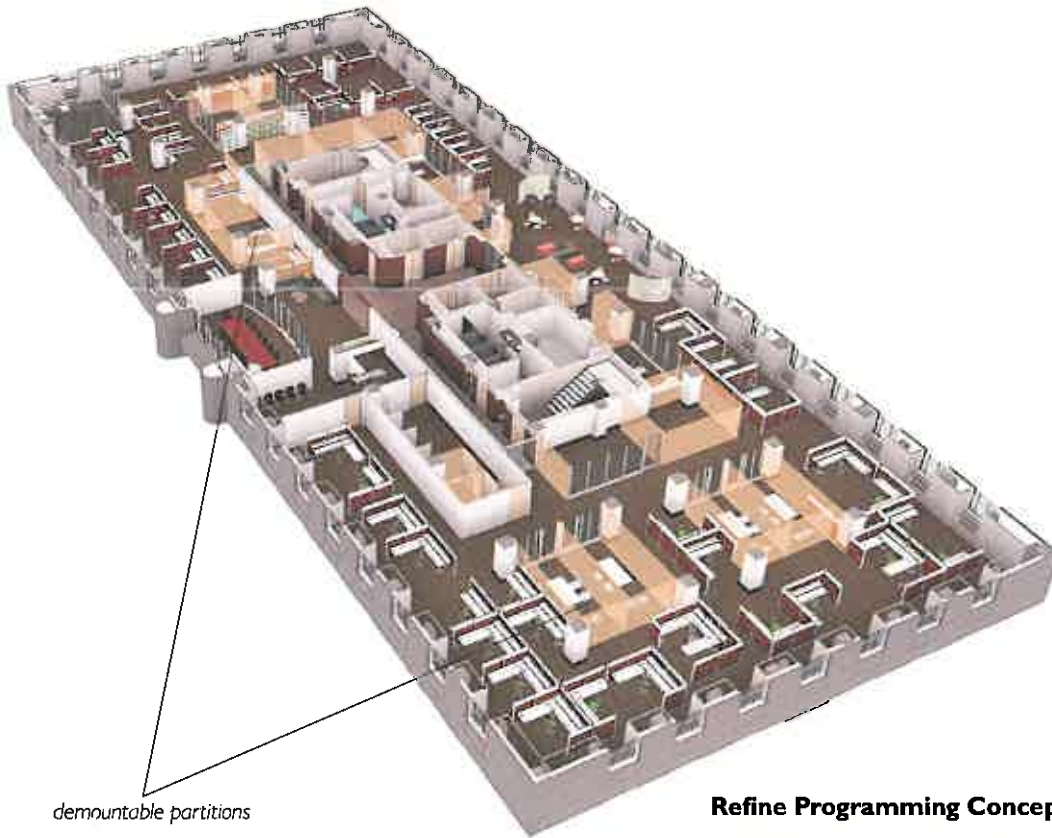
Research Current Best Practices

After fact finding comes exploration. PWWG's seasoned principals utilize a process of open-minded design exploration to rapidly identify pertinent ideas and alternatives for comment and critique, both within the design team and in multiple meetings with stakeholders. We review literature, precedents, and our own past work to consider: What kinds of spaces lead to more interaction and will best serve the needs of the State of West Virginia.

- *PWWG will do our research, stay abreast of trends and best practices, and apply them to the Building 4 Renovations.*

Approach / Methodology

Perfido Weiskopf Wagstaff + Goettel



demountable partitions

3D floor plan of WV Building 3 shows layout option including demountable partitions located around the central corridor to provide flexible HVAC control to various private offices.

Refine Programming Concepts & Test Fits

Alternatives include such issues as the configuration of space and functions within the building, potential expansion flexibility, and cost criteria, including first costs and operating costs.

- *PWWG does design and reviews with our consultants and **your team**, in an iterative process, exploring alternatives in drawings, narratives, and discussions as we move toward a preferred solution that will bring your functional and vision goals to life.*

Visualizations

We use a variety of media including computer-generated 3D modeling in conjunction with physical scale models to study and present alternatives that are immediately accessible and understandable to consultants and stakeholders.

- *PWWG and our team work in Revit, and generate 3D models from the start of any project. With test fits, these communicate ideas to your stakeholders more clearly and powerfully than floor plans. As we collaborate to refine the design, our visualizations are refined in tandem, moving step by step to polished rendered images.*

Approach / Methodology

Perfido Weiskopf Wagstaff + Goettel



PART 3 — SYNTHESIS

Development, Documentation and Realization

Once the program is confirmed and the concept is selected, the building design is developed into a schematic design set with full consideration for building structure and systems. At this stage, the models fully illustrate the final design concepts, and give the client the feel of the spaces they helped to design.

As the design is developed further, fine grain details are vetted to fully integrate and coordinate all of the components and building systems. Refinements completely define the scope of the project so that the cost of the work is accurate and the construction details are complete.

- *By using the processes outlined, and engaging with PWWG's unique application of those tools and its team of consultants, GSD can be confident that the resulting design will realize the vision and functional goals of your project. And you will have an efficient and comfortable workplace that will be respectful of the character defining features of this mid-century office building.*



3D model of new North Entry at WV Building 3



WV State Capitol Complex featuring the New Loading Pavillion at Building 3 which connect to the basement via a secure tunnel.

3

PROJECT EXAMPLES

Case Study: West Virginia State Capitol Building 3

Charleston, WV

West Virginia State Capitol Building 3 is a steel frame office building with a classical limestone facade. The architect was Cass Gilbert Jr., son of the famous pioneer of early skyscrapers.

The project breathed new life and purpose into one of the most prominent buildings on the WV Capitol campus, with preservation, restoration, and adaptive reuse of historic Building 3 for use as a modern, well-functioning and welcoming office space. The project deftly melds significant character defining historic features with the latest workplace amenities, celebrating the history and culture of West Virginia, while expressing in tangible form a vision for an optimistic future.

Over time, the offices inside the Capitol Building lost much of the original character. The renovation removed and replaced lowered ceilings, obstructive office partitions, unsympathetic lighting design, an un-welcoming lobby, and cramped hallways doubling as storage space.



after



DMV teller (before)

Our experience with the Building 3 Renovations provides the necessary qualifications and experience to approach Building 4 Renovations in which a portion of the survey and design work has already been accomplished and in which phasing must occur to accommodate occupied renovation.

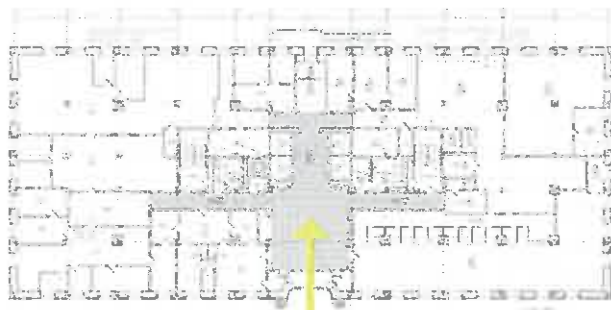


Lobby (before)



Scope of Work: First Floor / Main Lobby

- Restored all historical finishes to the approval of WV SHPO and WV Capitol Building Commission standards
 - Coordinated paint analysis of historic plaster and door jambs.
 - Refinished all terrazzo floors, acoustic plaster ceilings and lighting coves, bronze doors and light fixtures, and marble wall panels.
- Installed digital wayfinding / signage monitor within the original bronze lobby directory case
- Restored the existing DMV teller and public space to house WV Tourism's Call Center and Display area with flexible IT and AV capabilities.
- Redesigned all restrooms to ADA standards and provided family and lactation rooms within the existing building core area.
- Reconfigured existing and underutilized office space to flexible, multi-functional, rentable spaces:
 - Large Hall, a 2,100 sf multipurpose room equipped with projectors, project screens, audio system, and a catering kitchen for WV State ceremonies, presentations and/or events.
 - Video Conferencing and Meeting Rooms, including pre-function / breakout spaces



Existing Security Entrance



New separate Security Entrance

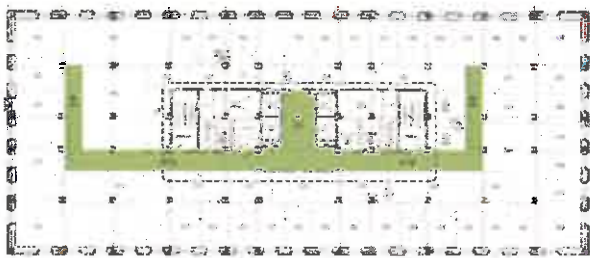
West Virginia State Capitol Building 3

Charleston, WV

(continued)

PWWG completely renovated the typical floor plates. The existing elevator lobby and corridor wrapped around the interior of the space, creating a dark and inefficient circulation path.

The revised plan shortened the corridor and added glass partitions between the circulation space and office space to improve daylighting and transparency. The new corridors are more efficient, brighter and more inviting. The corridor redesign also resulted in more usable office space.



Typical Floor Plan, Before

18,291 gsf floor plate
2,026 sf Circulation (11%)
50 workstations
365 gsf / workstation



Typical Floor Plan, After

18,291 gsf floor plate
1,200 sf Circulation (7%)
99 workstations
184 gsf / workstation



PWWG studied various configurations of office spaces within the existing structure. We developed a matrix of space allocations to allow the client to decide which configuration would best suit their operations.

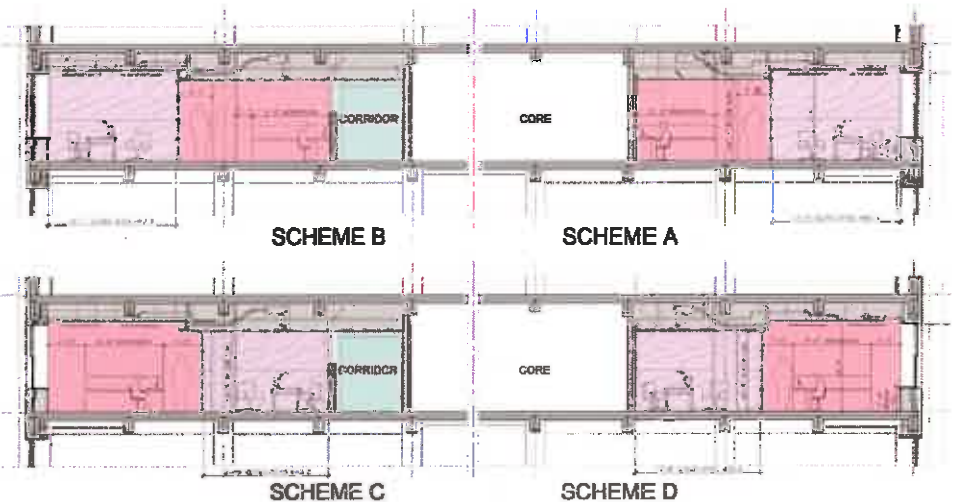


SCHEME D				SCHEME A			
DESCRIPTION	TOTAL AREA	PERCENTAGE	DESCRIPTION	TOTAL AREA	PERCENTAGE		
OFFICE AREA	1,000	100%	OFFICE AREA	1,000	100%		
CIRCULATION AREA	1,000	100%	CIRCULATION AREA	1,000	100%		
CORE AREA	1,000	100%	CORE AREA	1,000	100%		
OTHER SPACE	1,000	100%	OTHER SPACE	1,000	100%		
TOTAL	4,000	100%	TOTAL	4,000	100%		

SCHEME C				SCHEME B			
DESCRIPTION	TOTAL AREA	PERCENTAGE	DESCRIPTION	TOTAL AREA	PERCENTAGE		
OFFICE AREA	1,000	100%	OFFICE AREA	1,000	100%		
CIRCULATION AREA	1,000	100%	CIRCULATION AREA	1,000	100%		
CORE AREA	1,000	100%	CORE AREA	1,000	100%		
OTHER SPACE	1,000	100%	OTHER SPACE	1,000	100%		
TOTAL	4,000	100%	TOTAL	4,000	100%		



An innovative series of modular partitions located around the central corridor provide flexible HVAC control to offices. PWWG designed the system for maximum flexibility in the future.





Corridor (before)

The design replaced opaque doors with fixed glass and all-glass doors to bring natural daylight into the corridors. These glass doors also allow views to the exterior from the lobby spaces. The new lighting brought the existing stone finishes to life.



Flexible meeting space with electrical floor outlets

PWWG exposed the existing concrete floor structure in open office areas to create a more open feel.



The office interior design balanced different department needs for privacy and security. Common spaces are located around the core. These spaces include private huddle rooms, meeting spaces, kitchens, pantries, and storage spaces.



Open office areas were pushed to the exterior of the floorplate. Power and IT were distributed from building structure to avoid power and data poles from above. Remote or columnless spaces were equipped with floor boxes for power and data to ensure future furniture layout flexibility.

PWWG provided programming services to organize different size departments and staff throughout the building.

- DEVELOPMENT OFFICE
- DIVISION OF ENERGY
- OFFICE OF ECON OPP
- WORKFORCE
- DIVISION OF LABOR
- GENERAL STORAGE
- CIRCULATION
- UNPROGRAMMED
- MECHANICAL



Union Trust Building Interior Renovations

Pittsburgh, PA Perfido Weiskopf Wagstaff + Goettel



Size: 666,993 sf

Construction Cost: \$36M

PWWG Responsibility

Forensic Investigation
Architectural Design
Parking Garage Design
Contract Documents
Contract Administration
LEED Documentation

Completed

2016

Client

The Davis Companies

Awards

ULI Pittsburgh Placemaking Award — Excellence as a “Transformative Place”
AIA Pittsburgh, Preservation Award of Merit
“Building Design & Construction” Reconstruction Award



Design Award Winner



LEED Certified



The project involved total rehabilitation of a landmark Historic Register building in downtown Pittsburgh, with major interior renovations to bring the building into the 21st century by combining its historic features with operational and life safety needs of Class-A office buildings.

As Executive Architect, PWWG coordinated the work of all other engineering consultants retained by the Owner. Our services included work in all phases of the project from conceptual design through document and specification production, through construction administration.

How This Project Relates to the WV Building 4 Renovation:

Significant building code work to address life safety in a historic structure and to develop scenarios for multiple office tenant configurations

- PWWG responsible for core interior upgrades to serve retail and office tenants
- Created infrastructure for Class-A office space
- Major accessibility and systems upgrades throughout that are sympathetic to historic fabric
- All upgrades preserved historic architectural character and conformed to SHPO and NPS standards
- LEED Certified project

PWWG designed a new 190 car garage in the building's 2 basement levels, with 10 ramps and 8 different elevation changes. The new vehicle entrances, altering the building's historic facade, were designed in close coordination with NPS and the SHPO.





PWWG designed the elegant curved glass entry off of the Atrium, typical at each floor of commercial space.



The redesigned Conference Room on the 11th floor features PWWG's new layout, lighting, finishes, and AV systems.



Office and commercial spaces surround the dramatic 11-story central rotunda topped with a Tiffany stained glass dome.

Laborers District Council Office Fit-out

Pittsburgh, PA | Perfido Weiskopf Wagstaff + Goettel



Size 15,124 sf

Construction Cost

\$ 1.5M

Firm Responsibility

- Programming
- Architectural Design
- Contract Documents
- Contract Administration

Completion Date

2016

Client

Mascaro Construction (Design/Build Contract)

PWWG was engaged by Mascaro Construction Company in a design/build agreement to provide architectural services for a fit-out of two floors of the Laborers' Union building in the Cultural District of Pittsburgh. PWWG worked directly with the "tenant," the Laborers' Combined Funds entity, to establish the program and provide a new office space to better suit their needs from their original target locale in Uptown.

PWWG field verified existing conditions, including existing furniture that would be relocated in the move. We also designed a variety of office layouts to help facilitate different ways of working in their new space. PWWG selected and specified all interior finishes and new furniture, and created construction drawings to obtain building permits within the City of Pittsburgh. We worked collaboratively with Mascaro and their design/build subcontractors on MEP/FP system during design and construction, to provide a cost effective, successful project that the tenant was proud to move into.



Entry before (left) and after renovation.

Cincinnati Music Hall Renovation — Symphony Orchestra Offices Redesign

Cincinnati, OH | Perfido Weiskopf Wagstaff + Goettel



Size

Comprehensive: 225,000 sf
CSO Offices: 12,500 sf

Construction Cost: \$135 M

Firm Responsibility

- Managed the “Part 2” Application process to secure a \$25 million grant from the State of Ohio
- Programming
- Architectural Design
- Contract Documents
- Coordination of consultants
- Contract Administration

Client

3CDC
Cincinnati, OH



This Cincinnati landmark hadn't had a significant upgrade in 50+ years and needed extensive work inside and out to restore the building and upgrade it for 21st century use by 5 resident stakeholder groups. PWWG coordinated a team of consultants in a comprehensive rehabilitation and renovation. The existing offices for the Cincinnati Symphony Orchestra were a windowless and overcrowded maze of corridors and small offices. The building simply did not have enough floor area to accommodate the staff that had grown to over 100 people.

How This Project Relates to the WV Building 4 Renovation

- Complete redesign of Cincinnati Symphony Orchestra's offices to accommodate increased staff in the same footprint, make operations more efficient, and introduce natural light to a cavernous one-story space. PWWG's open floor plan co-locates teams working on diverse operations in mini-environments that support a variety of work needs from collaborative to private. The aesthetic is fresh, modern, and bright, with acoustical amenities to create and maintain a productive aural environment
 - PWWG inserted a new thin flat slab concrete mezzanine to increase available floor area. Bricked up original windows were opened and restored to bring daylight to the entire office.
 - The new layout addressed accessibility and vertical transportation upgrades, created modern restroom facilities on all floors; and improve safety and energy efficiency.



Test fit with the Revit 3D model to estimate capacity and operations with adding a Mezzanine.



Cincinnati Symphony Orchestra Offices – Expanded vertically with a new Mezzanine to increase daylight and space.

Warner Hall Renovation — Carnegie Mellon University

Pittsburgh, PA | Perfido Weiskopf Wagstaff + Goettel



Size

4 floors

Construction Cost: 3M
(estimated)

Firm Responsibility

- Programming
- Space Planning
- Test-fits
- Architectural Design
- Contract Documents
- Coordination of Consultants
- Contract Administration

Project Completion:
Early 2019 (Expected)

Client

Carnegie Mellon University

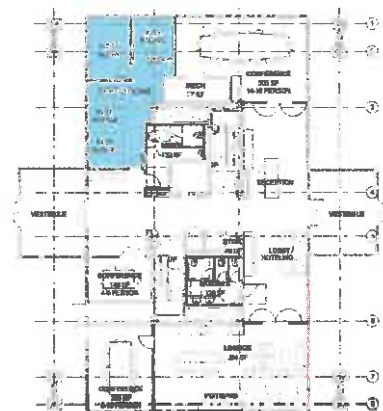


Warner Hall is a major destination on CMU's campus, with high visibility from any approach along Forbes Avenue. This renovation targets Floor 1, and Floors 3-6 to improve the user experience for everyone working in, and visiting the building. One of the university's key priorities for the project is to reimagine how the first floor layout can be improved for the range of visitors, including trustees, donors, and admissions candidates. Other unique challenges and opportunities include: realigning users by floor; the addition of an all-gender ADA restroom on each floor; and other amenity upgrades.

PWWG's scope of work includes program verification and space planning, schematic design, design development, construction documents, construction administration and close-out documentation. The University is also considering a full building HVAC upgrade to replace the existing, outdated system.

Challenging schedule considerations for PWWG include how to accommodate the University's need for swing space for housing administrative and service functions during construction, and how to negotiate the ebb and flow of capacity needs within the academic calendar. PWWG is also coordinating for this renovation with projects that will be in construction elsewhere on campus.

The project is targeted for LEED Silver Certification.



Before (above) PWWG's is exploring new ways to partition work spaces and to reclaim views and light at the building's perimeter.

Allegheny County Courthouse Facilities Plan & Renovation

Pittsburgh, PA | Perfido Weiskopf Wagstaff + Goettel



Size 103,500 s.f.

Construction Cost

N/A

Completion Date

Facilities Plan completed in 2016

2018 anticipated (Phase I)



Scope of Services

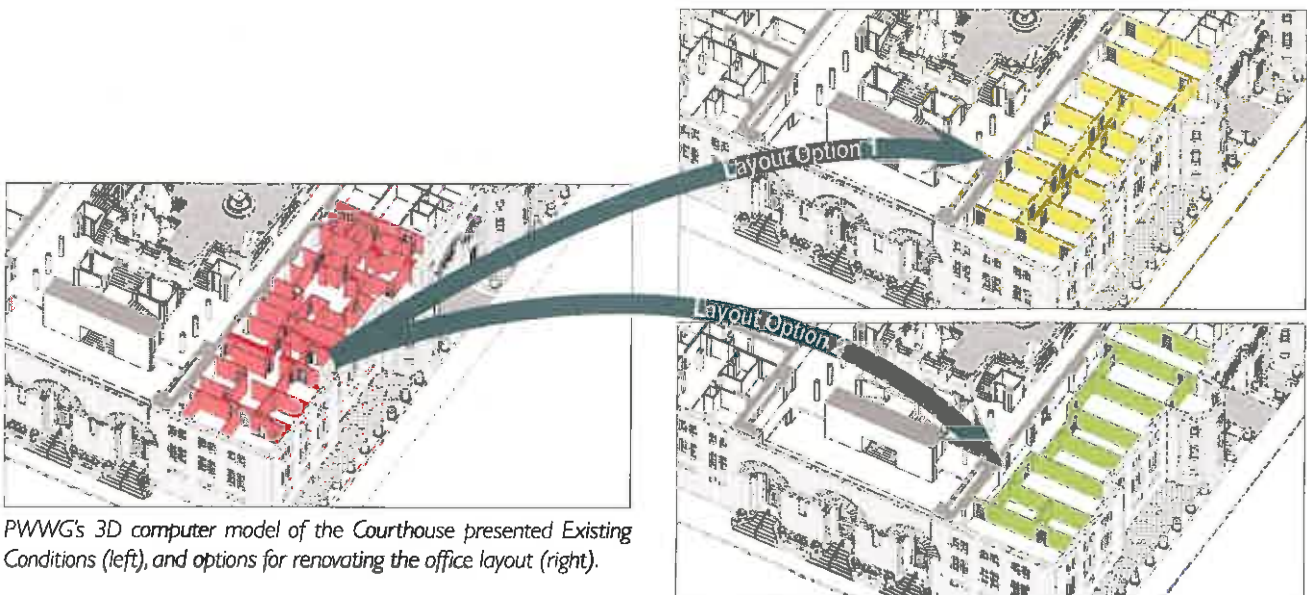
- Forensic investigation
- Document Existing Conditions
- Programming
- Planning
- Budgeting/Cost Estimating
- Architectural Design
- Concept Systems Design
- Renderings and report for Fundraising

Client

Allegheny County

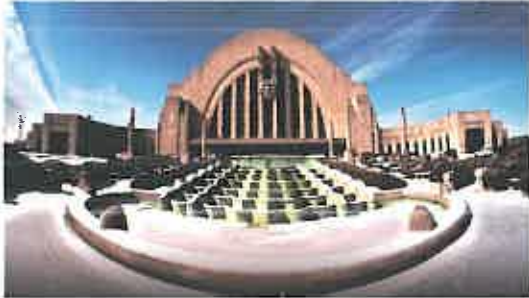
PWWG was tasked with developing a plan for the Courthouse to map projects to preserve and renew this National Register Landmark building. The Facilities Plan will guide future restorations, renovations, and repairs to this Historic Register icon in downtown Pittsburgh, balancing architectural stewardship with the need to outfit the building for 21st century operation.

- 12-month study addresses envelope and interior restoration and improvements for one of the most important architectural masterpieces in Pittsburgh
- Program includes offices, amenities, labs, and public gathering spaces
- PWWG led a team of experts in adaptive reuse, integration of new systems in existing buildings, sustainable systems, and cost estimating
- Engaged County executives, facilities managers, County judges, administrators, and staff to discuss options and needs
- Outlines detailed plans to restore and renovate the building for another century of use
- Concept designs for all inadequate/obsolete MEP systems
- Maps a series of 15 phased projects through 2030
- Addresses climate control, energy efficiency, sustainability and Accessibility integrated with architectural upgrades
- Study is key for fundraising to realize the built projects; Several projects have already been funded.



PWWG's 3D computer model of the Courthouse presented Existing Conditions (left), and options for renovating the office layout (right).

Project Examples — Historic Renovations Completed in the Past Three Years



Project: Cincinnati Union Terminal, Cincinnati, OH
Professional Services: 2016-Present

Description: Cincinnati Union Terminal was a significant development in the history of Cincinnati transportation. One of the last great train stations built, Union Terminal is a Cincinnati icon and one of the most widely regarded examples of the Art Deco style. Since its opening in 1933, Union Terminal has had a long and storied history, from welcoming soldiers home from World War II to becoming the home of three museums, an OMNIMAX® Theater and the Cincinnati History Library and Archives. In 2016, after more

than a year of planning, intensive design work and thorough probing and analysis by preservation architects, the real construction work on Union Terminal began. The restoration of Union Terminal requires a keen understanding of science, technology, engineering, mathematics and history as modern construction and engineering and involves cleaning, rebuilding and brightening the landmark space with the goal of bringing it back to its original form.



Project: War Memorial Veterans Building / San Francisco, CA
Professional Services: 2016-Present

Description. Designed by Arthur Brown Jr and built 1927, the War Memorial Veterans Building was is one of the last Beaux-Arts style structures erected in the USA, deeply rooted in SF history. It is home to the American Legion War Memorial Commission and houses the 900-seat Herbst Theater. In 2011, it underwent a renovation and seismic upgrade. Preview assisted the architect and design team to determine how each of the applicable codes and standards applied to historic buildings.



Project: Traction Building – Cincinnati, OH
Professional Services: 2018-Present

Description: Designed by famed Chicago architect Daniel Burnham and completed in 1903, the Traction Building was recently added to the National Register of Historic Places. The plans call for converting the 15-story building into a hotel featuring approximately 5,000 square feet of meeting space, a signature restaurant, a rooftop bar and a fitness center. Preview is assisting the architect understand and comply with the Ohio Building Code for existing building, including fire and life safety assessments.

Additional Project Examples — Iconic Buildings



Project: 84.51° / Kroger - Cincinnati, OH

Description: Constructed as a joint venture between the Cincinnati Center City Development Corp. (known as 3CDC) and opened in 2015, the 84.51° (formerly dunnhumby USA) building is a 9 story mixed-use high rise building located in the Central Business District of Cincinnati, OH. As the US headquarters of the firm 84.51°, the objective of the owner was to create an invigorating work atmosphere through the use of large floor openings and abundant natural light. In addition to office space, the building included both below- and above-grade parking garages, and street-level retail/commercial space. Preview's services on the project included working with the architect and owners in all phases of the project to address the regulatory issues associated with the unique design features (fire, life safety, accessibility and MEP).



Project: Queen City Square / Great American Tower - Cincinnati, OH

Description: The Great American Tower is Cincinnati's tallest building and the first within the city with Gold precertification under the LEED-Core and Shell (LEED-CS) program. The 41 story, 800,000 sf, state-of-the-art building occupies a premier location on the Cincinnati skyline, and its construction marks the finalization of the second phase of the Queen City Square project. Preview assisted the architect with the fit-out for the majority of the tenant spaces involving mechanical systems and life-safety features of the building, requiring appeals for final occupancy because of security concerns conflicting with code and life safety requirements.



Project: Seven at Broadway - Cincinnati, OH

Description: Opened in 2015, the Seven at Broadway complex is a 17-story mixed occupancy high-rise building. Constructed as an over-build above an existing 6-story parking garage, the residents are afforded expansive views of Mt. Adams and the Ohio River Valley. Preview's services on the project included working with the design team and construction management team on fire, life safety and MEP reviews in all project phases and extensive AHJ negotiations because of significant changes to regulations for high-rise buildings.

Additional Project Examples — Iconic Buildings



Project: Summit Country Day School - Cincinnati, OH

Description: The Summit Country Day School is a private, Catholic, independent school located in Cincinnati, Ohio, educating students from preschool through high school in its Montessori, Primary, Middle School and Upper School divisions. Founded in 1890 by the Sisters of Notre Dame de Namur, the school is located on a 24 acre campus in the Hyde Park neighborhood. The school offers academics, athletics, visual and performing arts, community service, and religious studies. During a major renovation to add classroom space, Preview assisted the design team in the development of construction documents and plan review.



Project: University of Cincinnati Baldwin/Rhodes Hall - Cincinnati, Ohio
Client: University of Cincinnati

Description: The Departments of Chemical, Mechanical, and Electrical Engineering in UC's College of Engineering join theory and practice through knowledge and experience. The Baldwin/Rhodes building is a primary part of the college's educational laboratory complex. Preview prepared a life safety evaluation of the existing facility in anticipation of improvements planned for the oldest part of the building and also outlined elements of the structure that did not meet current codes and standards. Preview continues to work with the University on projects throughout the facility.



Project: Gallagher Student Center, Xavier University - Cincinnati, Ohio
Client: Xavier University

Description: The 75,000 sf Charles P. Gallagher Student Center is at the crossroads of the Xavier University Campus. Centered around its four-story atrium, it is a gathering place for a wide range of student activities, organizations and events. Key components include: a 400 seat performing arts center/theater; student recreation/entertainment space; information/welcome center; student activities center; meeting rooms and lounge spaces; retail services (including food outlets, bookstore, copy/graphics service and banking services); and administrative offices. Preview's long-standing work at Xavier has included fire protection and life safety assessments, design reviews and accessibility surveys.



Additional Project Experience

Museums/Performing Arts	National Underground Railroad Freedom Center - Cincinnati, OH University of Texas Blanton Museum of Art - Austin, TX Coyote Point Museum - San Mateo, CA Computer History Museum - Mountain View, CA City College of San Francisco Performing Arts Center - San Francisco, CA Center for the Arts - Jackson, WY Museum Center – Cincinnati, OH Ensemble Theater – Cincinnati, OH Shakespeare Theater – Cincinnati, OH
Stadiums/Arenas	University of Cincinnati / Shoemaker Center - Cincinnati, OH Nutter Center/Wright State University - Dayton, OH Cleveland Municipal Stadium - Cleveland, OH Riverbend Music Center - Cincinnati, OH University of Cincinnati - Nippert Stadium Pavilion Addition – Cincinnati, OH US Bank Arena – Cincinnati, OH
Historical	The Textile Museum - Washington DC Ridges Museum - Ohio University: Ohio Statehouse - Columbus, OH
ADA/Accessibility Projects	Oconee County Courthouse - Oconee County, South Carolina Atlanta Marriott Downtown – Atlanta, GA Cincinnati Mills Mall - Cincinnati, OH Potomac Mills Mall – Woodbridge, VA Columbus Metropolitan Housing - Columbus, OH The Christ Hospital - Cincinnati, OH Drake Memorial Hospital - Cincinnati, OH Mercy West Hospital – Green Township, OH Cincinnati Children’s Hospital Medical Center – Cincinnati, OH Lofts at Deerfield Crossing - Deerfield Township, OH Brinley Place – Fairborn, OH Seven Hills Athletic Fields – Cincinnati, OH
Office Buildings	Great American Tower at Queen City Square - Cincinnati, OH 555 Mission Street - San Francisco, CA 120 West Gay Street - Columbus, OH Fidelity - Covington, KY Ciena Headquarters - Linthicum, MD dunnhumby USA – Cincinnati, OH
Recreation	Kids First Sports Center - Cincinnati, OH Equinox Fitness Center - Paramus, NJ University of Cincinnati Indoor Sports Complex - Cincinnati, OH University of Missouri – Columbia, MO



Additional Project Experience

Residential/Lodging

The 580 Building – Cincinnati, OH
7th & Broadway – Cincinnati, OH
Mercer Commons - Cincinnati, OH
Liberty Hills - Yreka, CA
Ft. Bragg Barracks - Ft. Bragg, NC
55 Page Street - San Francisco, CA
The Palisades at Mt. Adams - Cincinnati, OH
Groton Lofts - Cincinnati, OH
Latitude on the River - Miami, FL
The Hayes - San Francisco, CA
Bowling Green State University – McDonald Hall, Bowling Green, OH
Miami University – Oxford, OH
Symmes Hall
Dodds Hall
Dennison Hall
Dorsey Hall
University of Cincinnati – Cincinnati, OH
Dabney Hall
Morgen’s Hall
Shriner’s Burn Institute
Science and Engineering Research Building
University of Missouri – Columbia, MO
Thomas Jefferson Hall
Cherry Hall
Northern Kentucky University
Lakeside Terrace, Highland Heights, KY

*Projects where an accessibility review was a fundamental part of the project scope.

Parking Garages

Washington Park Underground Garage - Cincinnati, OH
Fountain Square Renovation - Cincinnati, OH

Multi-Use Structures

Sharonville Convention Center - Sharonville, OH
EpiCentre - Charlotte, NC
Yountville Town Center - Yountville, CA
Cincinnati Northern Kentucky International Airport/Terminal 4 - Hebron, KY
dunnhumby USA – Cincinnati, OH

Religious

St. Peter in Chains Cathedral - Cincinnati, OH
Vineyard Church - Cincinnati, OH

Manufacturing/Industrial

Robert Sinsky Winery - Napa Valley, CA
P&G - Edwardsville Distribution Center – Edwardsville, IL
P&G – West Bend Distribution Center – West Bend, IA
DHL Packing Facility – Hebron, KY
IAMS Research Facility – Dayton, OH



Additional Project Experience

Retail/Entertainment

Shops at Riverside - Hackensack, NJ
Base Camp at Spruce Peak - Stowe, VT
Macy's - New York City
Bergen Town Center - Paramus, NJ
Discover Mills - Gwinnett, GA
Bloomingdales - Hackensack, NJ
Kenwood Towne Centre - Cincinnati, OH
Nordstrom - Various locations
Franklin Mills - Philadelphia, PA
Chicago Premium Outlet - Aurora, IL
The Block at Orange - Orange, CA
Atlantic Station - Atlanta, GA
Potomac Mills - Woodbridge, VA
Towson Town Center - Towson, MD
Anne Arundel Mills - Hanover, MD

Hospitality

Atlanta Marriott Downtown - Atlanta, GA
Ahwahnee Hotel - Yosemite National Park, CA
Fairfield Inn - Dayton, OH

Healthcare

Peninsula Medical Clinic Tenant Improvements - Burlingame, California
University of Cincinnati CARE/MSB/University Hospital - Cincinnati, OH
Mercy Hospital West - Cincinnati, OH
Mercy Hospital Anderson - Anderson Township, OH
Clinton Memorial Hospital - Wilmington, OH
The Christ Hospital Expansion - Cincinnati, OH
The Cleveland Clinic - Weston, FL

Publications

John Wiley and Sons
Building Codes Illustrated Series; Steven R. Winkel, FAIA, PE; David S. Collins, FAIA; Steven P. Juroszek; Francis D. K. Ching
Thomson West
Ohio Accessibility Guidelines
OBBC Know Your Code
Editor - "Code News"

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REFERENCES FOR SIMILAR PROJECTS

References

Perfido Weiskopf Wagstaff + Goettel



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|--|---|--|
| <p>1. West Virginia Capitol Building 3 Renovation
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| <p>1. Slover Memorial Library Expansion and Historic Renovation
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