# EXPRESSION OF INTEREST

## GSD 146440 Design Services for Various Maintenance Projects

**Prepared For:**

**West Virginia Purchasing Division**
**2019 Washington Street, East**
**P.O. Box 50130**
**Charleston, WV 25305-0130**

**Submitted by CJL Engineering**
**Johnstown, PA 15902**

**July 24, 2014**

CJL ENGINEERING

**With**

PERFIDO
WEISKOPF
WAGSTAFF +
GOETTEL

**Pittsburgh, PA**

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## A. Concept CJL Firm Approach / Methods of Design and Project Sequence

Quality Control: Detailed surveys of existing conditions have enabled CJL Engineering to routinely see jobs to completion at change order rates less than 2 percent. Partner level involvement throughout the project, including the survey is key to our very successful track record of turning out quality design packages.

While at the Managing Partner Level, James M. Vizzini, P.E., LEED maintains a close connection to all facets of his projects. His responsibilities continue to include on-site surveys, systems comparisons, scope determination, plan and specification review, and construction inspection.

While the EOI list nine (9) separate projects, we will use the Building 88 project as the general discussion portion for our response. We have chosen this particular project, for, out of the nine listed, it may very well likely have the more interrelated trades work and as such be the most difficult of the projects.

The Building 88 project will require the usual steps of field survey to verify existing conditions, energy model calculations to confirm heating and cooling peak loading, along with energy management design to connect into the existing TRACER BMS. Some of the other items which also must be investigated as they assuredly surface on any renovation/upgrade project like this will be:

- Detailed measurement of the existing roof curbs: Are they in good enough condition for reuse, can new units be provided with adaptor curbs and questions like this must be answered so that we can act as stewards of the State's money and only design to spend what must be. A recent similar project to air condition a gymnasium at a high school south of Pittsburgh (Baldwin High School) involved new resized rooftop units. The determination that the curbs could indeed be reused saved significant monies in the curbs themselves, roof work and the associated warranties that would have been required if we had cut into the existing structure.

- A full understanding of the areas served by each of the units: We assume that this building will be required to remain online as much as is possible during the HVAC upgrade. As such, knowing exactly which areas are served by which unit will be paramount to the phasing discussions and how occupants may (or may not) need to be shuffled in the building to accommodate the timeframes when a particular unit is offline and replaced. A recent project at the California Intermediate Unit involved the replacement of 6 rooftop units. Each unit served approximately a dozen or so rooms. Our plans incorporated colored phasing plans clearly indentifying which collection of rooms were served by which rooftop unit. These plans became the template for all the phasing plans put forth subsequently by the contractors and allowed for much better coordination with the building's occupants.

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## B. Firm / Team Qualifications

- Firm's Contact Person:

James M. Vizzini, P.E. LEED, Managing Partner, CJL Engineering
232 Horner Street
Johnstown, PA 15902

Tel: (814) 536-1651

Cell: (814) 322-5457 Email: jvizzini@cjlengineering.com

Signature: _____

James M. Vizzini, P.E., LEED

- Team Resumes and Functions of Prime Professional:

  James M. Vizzini, P.E., LEED, Managing Partner – Partner-in-Charge

  Bruce A Grasser, P.E., LEED, Principal – Mechanical Engineer

  Eric E. Groer, P.E., Associate – Mechanical Engineer

  Gregory F. Alexander, Managing Partner – Project Management

  Kristoffer J. Rickabaugh, Associate – CADD Design

- Team Resumes and Functions of Architectural Consultant:

  Perfido Weiskopf Wagstaff + Goettel, Pittsburgh, PA

  Alan Weiskopf, AIA, Managing Principal

  Jan Irvin, AIA, LEED, – Senior Associate

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

James M. Vizzini, P.E. is a Managing Partner of CJL Engineering. He is responsible for management decisions, overseeing current projects, and maintaining relationships with architect and clients. He has also served as a project engineer on numerous historic renovation projects.

While at the Partner level, Jim maintains a close connection to all facets of his projects. His responsibilities continue to include on-site surveys; systems comparisons, scope determination, plan and specifications review as well as construction inspection. He also supervises HVAC systems design for various commercial and institutional projects, as well as schools (K-12), universities and health care facilities. These projects have ranged from large equipment replacement such as chillers, cooling towers, boilers and air handling units, entire HVAC systems design to district heating and cooling plants. Mr. Vizzini has been responsible for over $850 million of Mechanical and Electrical construction projects. His noteworthy projects include:

Carnegie Museum of Art, Pittsburgh, PA
3,500-ton Chilled Water Plant – update

Duquesne University, Pittsburgh, PA Energy Center Master Plan
and new Cooling Tower

St. Francis University, Loretto, PA New Science Center (LEED Compliant)

Community College of Allegheny County, Pittsburgh, PA
K. Leroy Irvis Science Center (LEED Silver) and West Hall

West Virginia University, Evansdale Campus, Morgantown, WV
Utility Infrastructure Master Plan

Presque Isle Downs, Erie, PA
(Casino, restaurants, offices, stables and racetrack support buildings)

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

State Office Buildings #5 and #6, West Virginia Capitol Complex,
Charleston, WV

Stryker Brigade Readiness Center, Pennsylvania Army National Guard,
Bradford, PA

DiSepio Health & Wellness Center (*LEED Compliant and Geothermal),*
St. Francis University, Loretto, PA

Water's Edge (*LEED Compliant*) Pittsburgh Zoo and PPG Aquarium,
Pittsburgh, PA

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

Animal Health Center (*LEED Compliant)* Pittsburgh Zoo and PPG Aquarium,
Pittsburgh, PA

Richland Township Municipal Building, Gibsonia, PA

Bio-Tech Center, Animal Research Laboratories, University of Pittsburgh,
Pittsburgh, PA

Naval Air Station - Oceana, Child Development Center
(*LEED Commissioning Services*) Virginia Beach, VA

PNC Financial Services Group – Data Center. Pittsburgh, PA

Johnstown High School, Johnstown, PA

Chevron Science Center- Renovation, University of Pittsburgh,
Pittsburgh, PA

***TITLE:***
Managing Partner

***SPECIALIZATION:***
Mechanical Engineering
Master Planning
District Cooling Plants

***EDUCATION:***

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

***REGISTERED PROFESSIONAL ENGINEER:***

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

***MEMBERSHIPS/ACTIVITIES:***

ASHRAE

Building Commission, Diocese of Altoona-Johnstown, PA

U.S. Green Building Council (USGBC)

Presenter: Energy and Education Conference (Geothermal Design) St. Francis University, Loretto, PA - 2009
U.S. Green Building Council (USGBC)

Presenter: Johnson Controls FY13 Leadership Forum, Potomac, MD
Topic: Consulting Engineers Business Strategies and Vendor Teaming

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## ***Bruce A. Grasser, P.E.*** *LEED® Accredited Professional*

Bruce Grasser is a Principal of CJL Engineering who joined the firm in 1999. Previously, Mr. Grasser provided technical engineering services for various power plant locations owned by GPU Genco (Penelec), Johnstown, PA.

As a Principal, Mr. Grasser is responsible for the design and specification of HVAC and other mechanical systems for commercial, institutional, industrial, and private clients. He surveys existing facilities and systems to confirm and evaluate their condition. He conducts engineering studies, establishes design criteria, and estimates project costs. He is also responsible for communicating project needs and requirements between owner, architect, engineer and contractor as well as managing in-house design efforts. Mr. Grasser's additional noteworthy projects include:

Akron Children's Hospital at Beeghley Medical Park, Boardman, OH
Bluefield Regional Medical Center, (Master Plan / OR-HVAC Replacement / East Wing HVAC Upgrade), Bluefield, WV
Carlow University Master Plan, Pittsburgh, PA
Elk Regional Medical Center, Biomass Boiler, St. Marys, PA
Garrett County Memorial Hospital, Oakland, MD
Replacement of Air-Handling Unit #1
New Emergency Generator
Forum Health / Trumbull Memorial Hospital, (Emergency Generator Replacement / Chilled Water Line Extension), Warren, OH
Hamot Medical Center, (Bayview Medical Office Building / Women and Babies Center), Erie, PA
Mahoning Valley Hospital, (New Hospital for Long-Term Acute Care), Youngstown, OH
Point Park University, Dance Studio (LEED), Pittsburgh, PA
St. Francis University, Loretto, PA
New Science Building (LEED Compliant)
Sullivan Hall - Upgrades
University of Pittsburgh, Pittsburgh, PA
Center for Bioengineering
Trees Hall Natatorium, HVAC Study
University of Pittsburgh at Johnstown, Johnstown, PA
Krebs and Biddle Hall – HVAC Upgrades
Owen Library, Oak Hall / Maple Hall / Laurel Hall
Youngstown State University, Chiller Plant, Youngstown, OH

CamTran Main Street Transit Center, Johnstown, PA
CamTran Office (HVAC Upgrades), Johnstown, PA
CamTran Ebensburg Facility, HVAC Evaluation, Ebensburg, PA
Johnsonburg Area Transit Authority, Transit Center, Johnsonburg, PA
Johnsonburg Area Transit Authority, Computer Center, Johnsonburg, PA
St. Marys Transit Center, St. Marys, PA

Greater Johnstown High School / Historic Cochran Auditorium / Trojan Stadium, Johnstown, PA
Pennsylvania Army National Guard Facility, Johnstown, PA
Intermodal Transit Center / Renaissance Garage, Johnstown, PA
Rescar Inc., DuBois, PA
Team Kia Dealership, Johnstown, PA
Stryker Brigade Readiness Center, Bradford, PA
Stryker Brigade Readiness Center, Punxsutawney, PA
PANG Readiness Center, Hermitage, PA

**TITLE:**
Principal

**SPECIALIZATION:**
Mechanical Engineering

**EDUCATION:**
University of Pittsburgh at Johnstown

B.S. – Mechanical Engineering Technology - 1983

**REGISTERED PROFESSIONAL ENGINEER:**
Pennsylvania

**MEMBERSHIPS / ACTIVITIES:**
American Society of Mechanical Engineers (ASME)

ASHRAE

Mr. Grasser served as President of ASHRAE's Johnstown Chapter in 1988-89, winning the Region III Best Chapter Award, and as the ASHRAE Region III Chapter Regional Conference Co-Chairman in 1991

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## *Eric E. Groer, P.E.* *Associate, LEED Accredited Professional*
***Mitsubishi Diamond Design Certified***

Eric E. Groer, P.E. is a Mechanical Engineer for CJL Engineering, joining the firm in September 2003. His areas of specialization include energy analysis modeling, building systems design, hot and chilled water systems design, air systems design, geothermal design, radiant flooring design, and LEED energy modeling. Eric is a LEED Accredited Professional, as designated by the U.S. Green Building Council. His duties involve systems design, project management, surveying and analyzing existing building systems. He attends design and construction meetings, and implements energy efficient and cost effective construction strategies, and building load analysis.

**Geothermal**

eCenter@LindenPointe (LEED Silver), Hermitage, PA

Richland Township Municipal Building, Gibsonia, PA

St. Francis University, DiSepio Institute for Rural Health & Wellness (LEED Compliant and Geothermal), Loretto, PA

**Other Representative Projects**

Allegheny Ludlum – Hot Rolling and Processing Facility, Pittsburgh, PA

Boyce Middle School, Pittsburgh, PA

Elliott Company – Plant Heating Conversion, Jeannette, PA

Fort Couch Middle School, Upper St. Clair, PA

Wilmington Area Middle / High School, New Wilmington, PA

West Virginia Capitol Complex, Steam Plant Extensions, Charleston, WV

VA University Drive, East Wing Mechanical System Upgrade, Pittsburgh, PA

Trumbull Memorial Hospital, Chilled Water Extension, Warren, OH

Norwin Middle School, North Huntingdon, PA

Northside Medical Center, (Forum Health), Circulation Pavilion West Addition, Youngstown, OH

Pittsburgh Zoo and PPG Aquarium, Water's Edge (Polar Bear Exhibit, LEED Compliant), Pittsburgh, PA

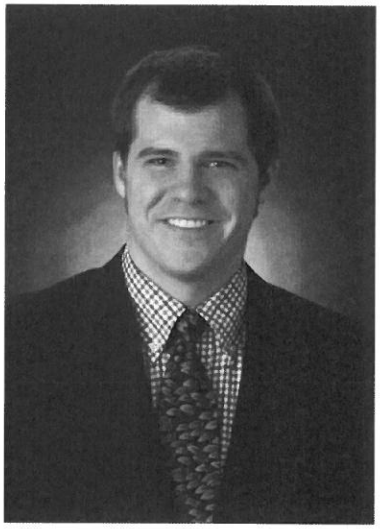
University of Pittsburgh, Darragh Street Housing, Pittsburgh, PA

Youngstown Air Reserve Station, Housing Design (LEED Compliant), Youngstown, OH

Steubenville Dialysis Clinic, Steubenville, OH

Sunnyview Nursing Home, Butler, PA

Capitol City Mall, HVAC Upgrades, Camp Hill, PA



**TITLE:**

Associate
CJL Engineering

**SPECIALIZATION:**

Mechanical Engineering

**EDUCATION:**

B. S. Mechanical Engineering Technology - 2003
University of Pittsburgh at Johnstown

**REGISTERED PROFESSIONAL ENGINEER:**

Pennsylvania

**PRESENTER:**

St. Francis University, Renewable Energy Center – Geothermal Energy Expo, July 2013

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## *Gregory F. Alexander, Managing Partner*

Greg Alexander joined CJL Engineering in 2001. He previously served as a consultant for 20 years. Mr. Alexander is responsible for managing many of the university and hospital projects at CJL Engineering as well as surveying existing facilities, evaluating the condition of existing facilities, and designing new electrical and fire protection systems. Mr. Alexander also provides construction observation services, which requires him to visit the construction site to solve field problems and provide punch lists for completion of the project.

**Representative Projects:**

PNC Bank, Over 100 Branch Locations Nationwide (LEED Gold, Silver, Certified)

PNC Tower BAS/FAS Replacement; Construction Services, Cleveland, OH

One PNC Boardroom and Conference Facility Retrofit, Pittsburgh, PA

PNC Pittsburgh Data Center Central Plant, Pittsburgh, PA

BJC Progress West Data Center (LEED Gold), O'Fallon, MO

Westmoreland Regional Generator Replacement, Greensburg, PA

Westmoreland Regional Hospital Data Center, Greensburg, PA

Weirton Medical Data Center, Weirton, WV

Pleasant Hills Middle School Renovation, Pleasant Hills, PA

Dubois Area Catholic School, K-12, Dubois, PA

Franciscan University Renovation of Campus Facilities, Steubenville, OH

Forum Health Northside Medical Center, Youngstown, OH

Forum Health Trumbull Memorial Hospital, Warren, OH

Forum Health Beeghley Medical Park, Boardman Township, OH

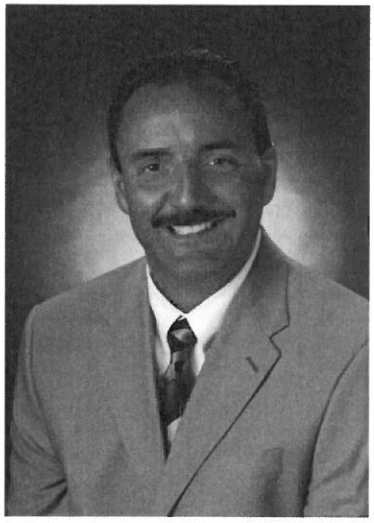
Weirton Medical Center, Weirton, WV

UPMC Shadyside Hospital, Pittsburgh, PA

UPMC Magee-Women's Hospital, Pittsburgh, PA

UPMC Mercy Hospital Central Plant, Pittsburgh, PA

UPMC/Presbyterian Hospital, Pittsburgh, PA



**TITLE**

Managing Partner / Project Engineer
CJL Pittsburgh

**SPECIALIZATION**

Electrical design
Specification writing
Bid evaluations
Construction observation

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## *Kristoffer J. Rickabaugh, Associate*

Kris Rickabaugh, an Associate at CJL Engineering, is responsible for designing electrical and lighting systems for various types of facilities. Kris has been the project manager on many projects, and also uses his design experience to mentor designers who are new to the firm. In addition to his engineering responsibilities, Kris spent many years as a member of the IT staff.

Kris is highly skilled in the areas of modeling and rendering. He is equally comfortable carefully reviewing project details with a client as he is visualizing, designing, and implementing an elaborate 3D rendering. Kris is able to compile exact measurements using modeling software to ensure that nothing is lost as the building moves from concept to reality.

**Health Care**

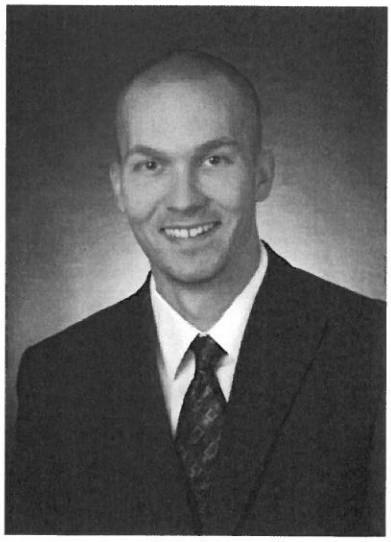
UPMC Magee-Womens Hospital Emergency Department, Pittsburgh, PA
UPMC Magee-Womens Hospital Women's Care Birth Center
UPMC Magee-Womens Hospital PET CT Scanner, Pittsburgh, PA
UPMC Mercy Hospital Emergency Department, Pittsburgh, PA
UPMC Mercy Hospital Rehabilitation Center, Pittsburgh, PA
UPMC Mercy Clinical Diagnostic Unit, Pittsburgh, PA
UPMC Mercy CV ICU, Pittsburgh, PA
UPMC Mercy Emergency Department CT Scanner, Pittsburgh, PA
UPMC Passavant Pavilion, Pittsburgh, PA
UPMC Shadyside Family Health and Radiology, Pittsburgh, PA
UPMC Lemieux Sports Complex, Pittsburgh, PA
East Liverpool City Hospital MRI, East Liverpool, OH
Talecris Plasma Resources Plasmapheresis Centers (NC, TX, MO, IA)

**Education**

West Virginia University Oglebay Hall, Morgantown, WV
West Virginia University Evansdale Campus Master Plan
California University of Pennsylvania Steel Auditorium, California, PA
University of Pittsburgh Barco Law Library, Pittsburgh, PA
University of Pittsburgh Falk School Renovation, Pittsburgh, PA
University of Pittsburgh Thornburg Room, Pittsburgh, PA
Allegheny College Tippie Alumni Center, Meadville, PA

**Commercial**

Presque Isle Downs Clubhouse, Erie, PA
PNC Branch Office Site Lighting Open End Contract, Pittsburgh, PA
U.S. Secret Service New Office Fitout, Pittsburgh, PA
Monroeville Convention Center, Monroeville, PA
Monroeville Doubletree Hotel Renovation, Monroeville, PA
Seneca Nations Allegany Sports Complex, Salamanca, NY
Seneca Nations Sports Complex, Irving, NY
St. Paul's Cathedral, Pittsburgh, PA
Dulles International Airport Four Gate and APM Addition, Dulles, VA
Bagram Army Base, Bagram, Afghanistan
Little Sisters of the Poor Administrative Building, Pittsburg, PA
Woodcrest Retirement Residence, Pittsburgh, PA



***TITLE:***

Associate/Electrical
CJL Pittsburgh

***EDUCATION:***

1998 / Associate of Applied Science in Architectural Drafting and Design and Computer Aided Drafting and Design / Pittsburgh Technical Institute

# Alan Weiskopf, AIA

Managing Principal **Perfido Weiskopf Wagstaff + Goettel**

**Education**
University of Cincinnati
Bachelor of Architecture, 1975

**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

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

**Notable Project Experience**

- PA Historic & Museum Commission, PA — Three 5 year open-end contracts for historic restoration work
- Pennsylvania Capitol Peristyle Deck Harrisburg – Investigation, analysis and design for water-proofing the exterior peristyle walkway at the base of the ornate dome of the historic PA State Capital Building.
- Main Capitol Rotunda, Charleston, WV — Historic restoration of rotunda interior.
- Main Capitol Restoration, Harrisburg, PA — Multi-phased historic restoration.
- West Virginia Capitol Building Three, Charleston, WV — Renovation of a historic office building.
- Elevator Upgrades and Modernizations on the WV Capitol Complex, Charleston, WV — Modernization and upgrades to 19 elevators in 11 buildings at the Capitol, several on the Nat. Register of Historic Places.
- 21c Museum Hotel, Cincinnati, OH — Rehab of historic downtown hotel for new upscale 170 room hotel.
- 21c Museum Hotel, Lexington, KY — Conversion of historic 15-story First National Bank Building in downtown Lexington to an upscale 90 room hotel.
- 21c Museum Hotel, Durham, NC — Conversion of historic 17-story Hill Building in downtown Durham to an upscale 120 room hotel.
- Henry W. Oliver Building Facade Rehabilitation and Embassy Suites Hotel Conversion — Forensic analysis/rehab of stone exterior for the 25-story building, and adaptive reuse of 9 stories for a hotel.
- Courtyard by Marriott Hotel, Pittsburgh — Adaptive reuse of historic urban building for 182 room hotel.
- Congregation Poale Zedeck Renovation and Facilities Planning, Pittsburgh — Facilities planning, and exterior, interior, Life Safety, and Accessibility upgrades to this historic building.
- Old Main Building Selective Renovations, West Virginia University, Montgomery, WV — Exterior, interior, Life Safety, and Accessibility renovations and upgrades to this Historic Register building.
- 575 Broadway, New York, NY — Adaptive reuse of historic urban building for office and museum uses.
- Hamburg Hall, Carnegie Mellon University — Renovation of historic building for academic facility.
- Oglebay Hall & Ming Hsieh Hall, West Virginia University, Morgantown, WV — 55,000 sf historic renovation and 20,000 new building, LEED.
- Congregation Poale Zedeck Renovation and Facilities Planning, Pittsburgh — Facilities planning, and exterior, interior, Life Safety, and Accessibility upgrades to this historic building.
- 15th and Race Mixed Use Development, Phase 1 — new construction and renovation of buildings in the Over-the-Rhine neighborhood, Cincinnati, for retail, commercial, and housing.
- Information Science & Technology Building, Penn State University — $50 million academic building.
- Utilities and Infrastructure Improvements & Quad Design, West Virginia University, Evansdale, WV — PWWG is leading a team of engineers developing and implementing a coordinated infrastructure plan for 5 facilities on 150 acres on the campus.
- Campus Parking Expansion, West Virginia University, Evansdale, WV — PWWG is leading a team of engineers developing new parking capacity on the campus, as a component of the Utilities and Infrastructure Improvements project.
- Uhler Hall, Indiana University of PA — Academic building with labs & classrooms for psychology department.
- West General Robinson Street Garage, Pittsburgh — 10 story event garage with 1200 spaces.
- FORE Systems Campus, Warrendale, PA — High tech office and manufacturing campus—5 buildings.
- Pittsburgh Internat'l Airport, Pittsburgh — Addition of landside and airside building passenger elevators.

# Jan Irvin, AIA, LEED AP

Senior Associate **Perfido Weiskopf Wagstaff + Goettel**

**Education**
B.Arch Kent State University
1980 M. Arts
Pittsburgh Theological Seminary, 1996

**Registration**
Registered Architect in PA

**Professional Association**
American Institute of Architects
LEED Accredited Professional

Jan Lyle Irvin has practiced architecture for the last 30 years across a broad spectrum of users and project types including master planning of residential communities, neighborhood infill housing, historic restoration, museums, educational facilities from K-12 through university, hospitals, labs, assisted living and commercial structures. Since joining PWWG in 2003 Jan has utilized such emerging technologies as prefabricated modular housing units and pressure-equalized rain screen wall design for various projects. He has extensive experience with renovations and additions (including adaptive reuse). Jan brings to the firm an unusual appreciation of the connections between design, constructability, and in-service performance. He has led workshops for staff and for local architects on construction specifications. He also develops and implements many of the firm's quality management initiatives.

**Notable Project Experience**

- 21c Museum Hotel, Lexington, KY — Conversion of historic 15-story First National Bank Building in downtown Lexington to an upscale 90 room hotel.
- 21c Museum Hotel, Durham, NC — Conversion of historic 17-story Hill Building in downtown Durham to an upscale 120 room hotel.
- Child Development Center, WVU Parkersburg, Parkersburg, WV – New 8,000 sf early learning and clinical teaching facility.
- Applied Technology Center, WVU Parkersburg, Parkersburg, WV – New 20,000 sf classroom & lab building.
- New Campbell Health Sciences Hall, West Liberty University, West Liberty, PA – 71,000 sf new building to house every health care major offered by the university.
- S. Greengate Commons, Hempfield Twnship, PA – New 47,200 sf 3-story low-income housing for seniors; PHFA Tax Credit funding.
- Utilities and Infrastructure Improvements & Quad Design, West Virginia University, Evansdale, WV – PWWG is leading a team of engineers developing and implementing a coordinated infrastructure plan for 5 facilities on 150 acres on the campus.
- Campus Parking Expansion, West Virginia University, Evansdale, WV – PWWG is leading a team of engineers developing new parking capacity on the campus, as a component of the Utilities and Infrastructure Improvements project.
- Elevator Upgrades and Modernizations on the WV Capitol Complex, Charleston, WV — Modernization and upgrades to 19 elevators in 11 buildings at the Capitol, several on the Nat. Register of Historic Places.
- National Center for Youth Science Education, Davis WV – Master plan study for year round STEM education facility.
- Drake Well Museum, Titusville, PA – 24,000 sf renovation and additions located at historic oil discovery site.
- McClintock Oil Well and Drake Well Standard Oil Rig, Titusville area – Preservation of historic oil structures.
- Fort Pitt Museum, Pittsburgh - Repairs to 450 lf of replica bastion walls, stone capstone and interior HVAC.
- West Park Court, Pittsburgh PA – 10-story apartment building renovation including new metal panel facade.
- MHA Scattered Sites, McKeesport, PA – 20 single-family, prefab modular units, neighborhood reconstruction.
- Heritage Health Foundation, Braddock, PA – Four single family, prefab modular infill units and two renovations.
- Laurel Estates, Uniontown, PA - 56 single, duplex, and triplex homes with community building.
- Oak Hill Master Planning, Pittsburgh – 37 acre site, 450 unit mixed-income development.
- Marriott Hotels, Various sites in PA and NC – New hotels with full service restaurant and indoor pools.
- Master Planning, Fort Mason & Crawford Village, PA – Reconnection and redesign of public housing sites.
- Pittsburgh Public Schools, Pittsburgh – Weil Technology, South Hills Middle and South Stadium renovations.
- Thomas Hughes House, Jefferson, PA – Adaptive reuse of 18th century home of Whiskey Rebellion leader.
- Laboratory Design, Carnegie Mellon University – Biochemistry, general chemistry and NMR lab renovations.
- J. Crew, Pittsburgh PA – Two-story retail store in dense urban shopping district.
- Memorial Christian Hospital, Sialkot, Pakistan – 60,000 sf additions, 10,000 sf renovation, sustainable practices.
- Arcor, Toronto, Canada – Accessible seniors modular housing type study for aging Canadian population.
- Stump Residence, Georgetown, Texas – Small town texas traditional stone home.

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- Agency Ownership of Engineering Services:

CJL Engineering acknowledges and accepts that the Agency will have all property rights to all work produced as a result of this contract, and can be used or shared by the Agency as deemed appropriate.

- CJL Engineering has no outstanding litigation or arbitration proceedings, including vendor complaints filed with the State's Purchasing Division, disputes with other Agencies of the State of West Virginia that involve legal representation by either party relating to the firm's delivery of design services, if applicable. Also, any disputes with other Agencies of the State of West Virginia that involve legal representation by either party.

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## C1. Project Organization

James M. Vizzini, P.E. will be the Principal-in-Charge partner for this project. While more detailed information is listed on the attached resume, Mr. Vizzini's central boiler plant expertise over the last 20 plus years is extensive. Even though his is listed at the managing partner level, Mr. Vizzini has always focused on being hands on. As a reference to this commitment to stay "Close" to a project, we cite his detailed surveys of WV #3 and the scope direction developed from them. It has always been our philosophy that projects can be most successful only when the top level partners bring their years of experience directly into a project. The unique characteristics of central heating and cooling plants demand such attention. Other members of the anticipated project team and their years of experience are delineated in their attached resumes which follow.

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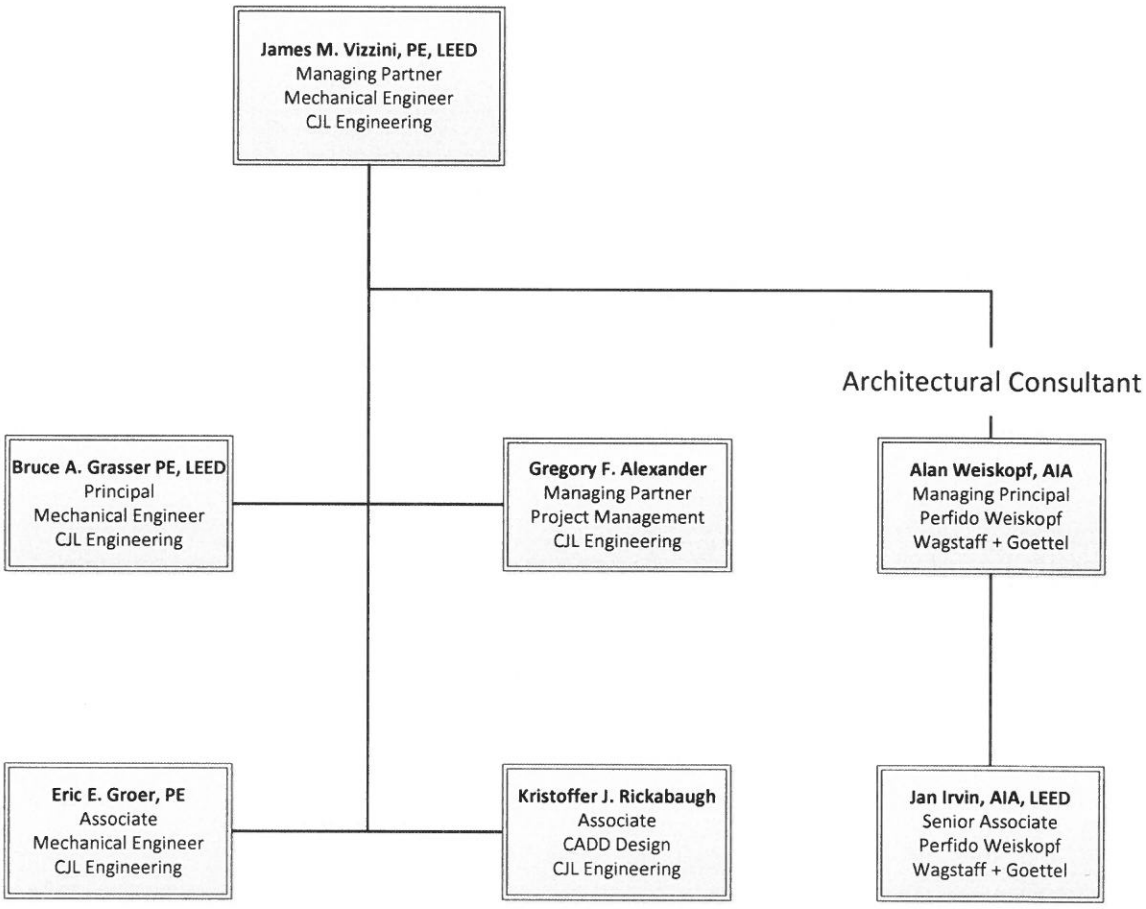


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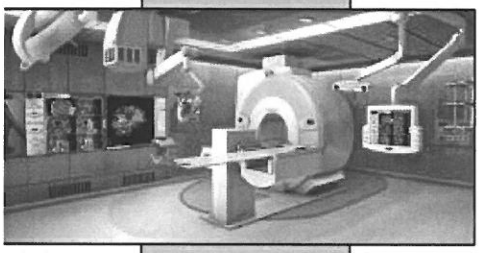
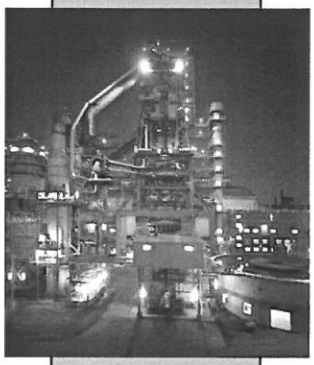
# EXPRESSION OF INTEREST
## GSD 146440 Design Services for Various Maintenance Projects
## CJL Engineering

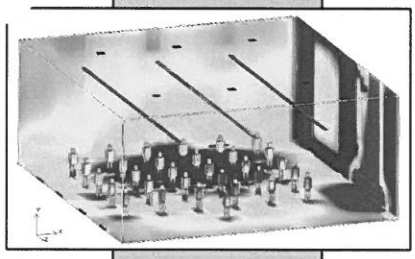
- Prime Professional:

With a cumulative staff of 120 professionals, CJL Engineering is fully staffed and qualified to serve as sole Prime Professional on this project. Engineering disciplines include Mechanical Engineering (HVAC / Boilers/ Plumbing), Electrical, Civil, Site, Structural Engineering and LEED services.

CJL Engineering Firm Profile – follows







# CJL ENGINEERING

## FIRM OVERVIEW

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

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

**CJL Energy Solutions** supplies engineering, process and business consulting and operational services in the energy and sustainability field. Our main market segments are institutional, government, commercial and industrial customers with deep commitment to long term sustainability.

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

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

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

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EXPRESSION OF INTEREST

GSD 146440 Design Services for Various Maintenance Projects

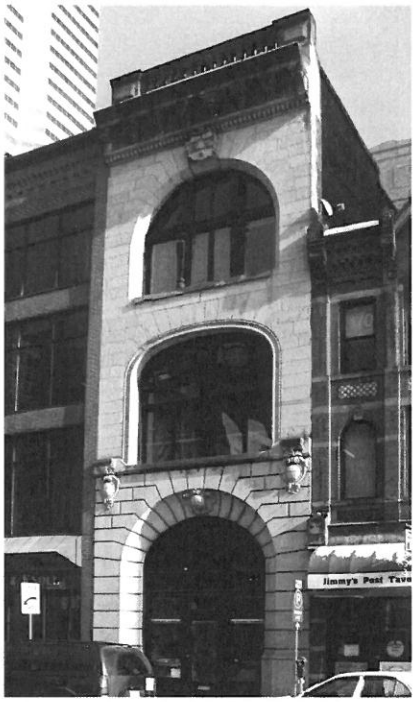
CJL Engineering

- Architectural Consultant:

Firm Profile: Perfido Weiskopf Wagsraff + Goettel - follows

# Firm Profile

**Perfido Weiskopf Wagstaff + Goettel**



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

## PWWG AT A GLANCE

**Established**
1975

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

**Structure**
PA Limited Liability Company

**Current Staff**
15 Architectural; 10 Registered, 9 LEED AP
3 Administrative and Support

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

**Project Size Range**
Very small up to $60M

Perfido Weiskopf Wagstaff + Goettel (PWWG) is a 18 person design firm practicing architecture, planning, and urban design. In 38 years of practice we have developed a reputation for creative, elegant solutions to complex problems, most often involving college buildings, housing of various types, and historic structures. We have three areas of specialization—facilities for higher education, multi-family residential design (including affordable and market rate, student and senior housing, and luxury condominiums), and the rehabilitation, preservation, and adaptive reuse of historic architecture. We also design hotels, theatres, galleries, retail, and parking structures. Repeat clients include institutions, private businesses, public/private partnerships, and government.

We are a Pennsylvania limited liability company, owned and led by three Principals: Alan Weiskopf, AIA, Sheldon Goettel, AIA, LEED AP and Kevin Wagstaff, AIA, LEED AP. The full staff includes 10 Registered Architects, 5 Graduate Intern Architects, and 3 business support professionals.

*Our work is guided by 3 principles:*

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

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

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

PERFIDO
WEISKOPF
WAGSTAFF +
GOETTEL

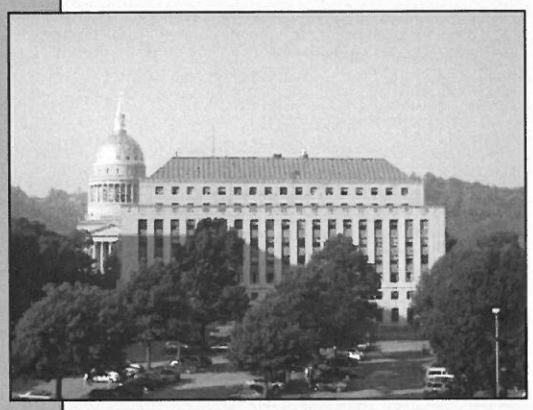
EXPRESSION OF INTEREST
GSD 146440 Design Services for Various Maintenance Projects
CJL Engineering

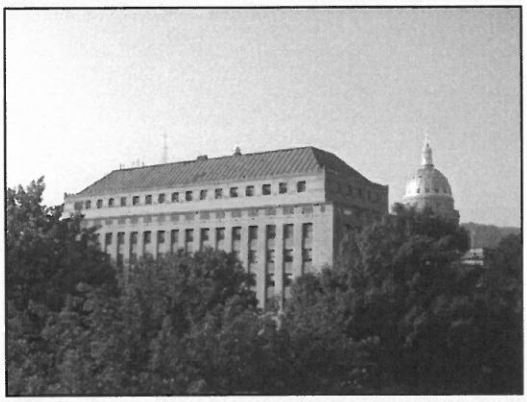
## D1. Demonstrate Experience in Completing Projects of a Similar Size and Scope

Since GDS146440 Design Services for Various Maintenance Projects covers nine (9) various projects in West Virginia, of varying size and scope, we are providing ten (10) project examples for the Department of Administration to consider. Each of these examples includes a full project description of the engineering services provides, plus project cost, date, ownership, and contact reference information. They include:

1. State Office Building #3, West Virginia Capitol Complex, Charleston, WV
2. Scaife Hall, UPMC / University of Pittsburgh Collaborative, Pittsburgh, PA
3. BJC Data Center (LEED Compliant), St. Louis, MO
4. Oglebay Hall – Forensic Science Complex (LEED Certified), West Virginia University, Morgantown, WV
5. New Science Center, St. Francis University, Loretto, PA
6. Chevron Science Center, University of Pittsburgh, Pittsburgh, PA
7. U.S. Army Corp of Engineers - Theater Support Facility, Bagram Air Field, Bagram, Afghanistan
8. K. Leroy Irvis Science Center (LEED Silver Anticipated), Community College of Allegheny County (CCAC), Pittsburgh, PA
9. Richland Township Municipal Building, Allegheny County, Gibsonia, PA
10. Punxsutawney Hospital – Master Planning and Implementation, Punxsutawney, PA

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





**The Project:**

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

**CJL Engineering Design Solutions:**

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

**Project Cost:** $24 million **Completion**: 80% redesign
**Owner:** State of West Virginia
**Contact**: Scott Mason, P.E., 1900 Kanawha Blvd., East, Charleston, WV 25305
T. (304) 558-3490

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# Scaife Hall 5A - Neurology Research Lab

## UPMC – Pitt University Collaborative Effort

## Pittsburgh, PA

**The Project:**

CJL Engineering provided Mechanical and Electrical Engineering services for Scaife Hall 5A, a renovated 13,000 sq. ft. Neurology Research Laboratory. The project is a collaborative initiative between UPMC Presbyterian Hospital and the University of Pittsburgh. The Laboratory includes over 500 linear feet of useable counters, 10 fume exhaust hoods, a BSL2 Lab, and tissue culture rooms.

**CJL Engineering Design Solutions:**

- Remove Supply and Return air ductwork back to penthouse duct mains above space and extend all new ductwork, VAV boxes, and controls to space
- Complete Variable Air Volume HVAC System with hot water reheat and perimeter radiant panels plus a DDC Control System
- New laboratory exhaust system tied back into an existing high static exhaust fan
- New emergency panels for laboratory equipment
- Fire Protection and Fire Alarm Systems
- Communication, Paging, Monitoring and a Nurse Call System
- Interior and Exterior lighting design
- All Plumbing and Medical Gas Distribution and Evacuation Systems

**Contact:** Dan Fisher **Cost:** $3 million
Asst. Vice Chancellor – Research Operations
University of Pittsburgh
3400 Forbes Ave., Pittsburgh, PA 15260
(412) 383-9955 daf8@pitt.edu

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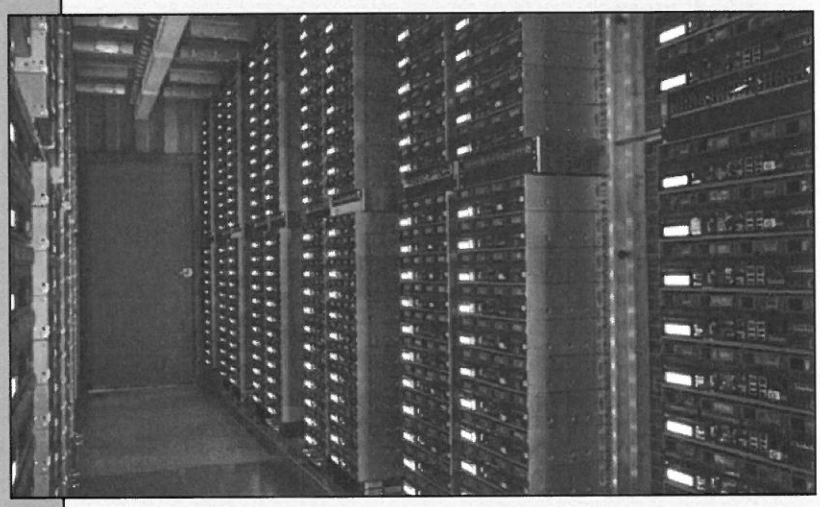
# BJC Data Center (LEED Compliant)

## High Performance 'Green' Data Center

### St. Louis, MO



**The Project:**

The new $35 million, 30,000 sq. ft. Tier 3 primary Data Center for BJC Healthcare, St. Louis, MO is located on an existing hospital campus that has been developed as a green healthcare facility in accordance with LEED® criteria. The Data Center was designed and built utilizing high performance sustainable design principles, creating an "integrated" green site.

**CJL Engineering Solutions:**

- The Data Center was built to Tier 3 standards, including seismic and tornado hardened facilities, multiple utility power sources, and n+1 redundancy for normal and emergency MEP equipment.
- The Data Center incorporates a high density heat containment approach to minimize cooling energy requirements and maximize environmental control to meet increasing data equipment power and cooling loads.
- The Data Center cooling load heat rejection is recovered and used for various hospital heating needs, including boiler makeup water preheat, VAV reheat, Domestic Hot Water preheat.

**Contact:** Brian Ronning, Group Manager
**Cost:** $30 million
**Owner:** BJC HealthCare, 4352 Clayton Ave., St. Louis, MO 63110
(314) 362-0544 BRonning@bjc.org

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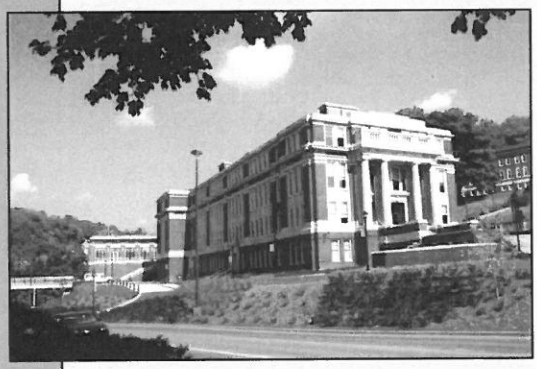
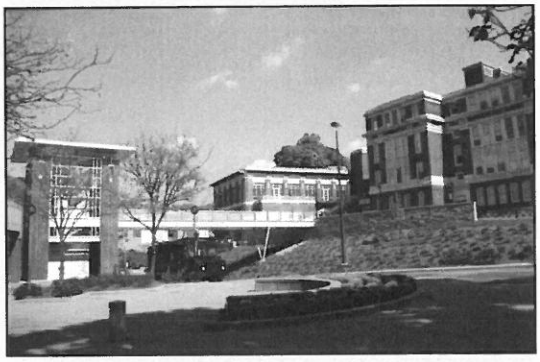
# Oglebay Hall - Forensic Science Lab (LEED® Certified)
## West Virginia University
## Morgantown, WV





**The Project:**

West Virginia University transformed its historic 54,000 sq. ft. Oglebay Hall into a state-of-the-art forensics laboratory and classroom building. Dating from 1916, the new 74,000 sq. ft. building includes DNA and molecular biology laboratories, electron microscopy, bone analysis, gas chromatograph, ballistics analysis, blood, fingerprint, and trace evidence analysis facilities, as well as classrooms, faculty and graduate student offices, and new Auditoriums. The project was designed to achieve LEED® certification.

**CJL Engineering Design Solutions:**

- Laboratory facilities designed with standardized systems to reduce costs.
- High performance window glazing system for beneficial daylight will reduce thermal losses and solar heat gain. Lighting systems adjust to daylight levels and automatically dim and shut off, saving energy.
- HVAC systems provide exceptional indoor air quality and energy efficient performance. Variable speed drives reduce energy use during part load conditions, and the HVAC systems use environmentally friendly refrigerants.
- Ventilation levels in non-lab areas automatically adjust for the number of occupants. Generous fresh air volumes are "scrubbed" with MERV-13 high efficiency filtration and ultraviolet (UV) lights that reduce airborne contaminants.
- Interior finishes and materials contain no or low Volatile Organic Compounds (VOC's), avoiding the introduction of interior pollutants.
- Water conserving plumbing fixtures, drought-tolerant landscaping, and careful control of air and water waste streams limit occupant exposure to potentially hazardous materials, and reduce environmental impact.

**Contact:** Arbie Forman, P.E., Project Mgr., Physical Plant
**Cost**: $23.5 million
**Owner:** West Virginia University, 979 Rawley Lane, Morgantown, WV 26506
(304) 293-2878 arbie.forman@mail.wvu.edu

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# New Science Center
## St. Francis University
## Loretto, PA

**The Project:**

CJL Engineering designed the Mechanical and Electrical Systems for a new 70,783 sq. ft. science building located on the main quad at St. Francis University. Opened in fall 2013, it houses the biology, chemistry, physics, mathematics, environmental engineering, and computer science departments. The new building has 16 instructional laboratories, classrooms, student / faculty research laboratories, a Vivarium and Marine Aquatics lab, faculty offices and conference rooms.

**CJL Engineering Design Solutions:**

- The HVAC System includes three variable volume air-handling units and one Energy Recovery unit with propylene glycol heat recovery run-around loop
- New boiler plant and chiller plant with a split barrel air-cooled chiller
- Fume hood lab exhaust with a restricted by-pass operation preventing any re-entrainment of fumes into the building.
- Lighting in classrooms and labs utilize pendant-mounted direct / indirect light fixtures controlled by occupancy sensors
- Daylight Harvesting System controls the corridor lights around the atrium
- A Natural Gas Emergency Generator is provided for lab equipment and limited HVAC equipment
- A 277/480-volt 3-Phase secondary Electrical Service, main and sub-distribution switchboards, and dry-type transformers
- Custom-built lab air handling and energy recovery air handling units to facilitate ease of future component repair/replacement
- Independent Vivarium air handling unit

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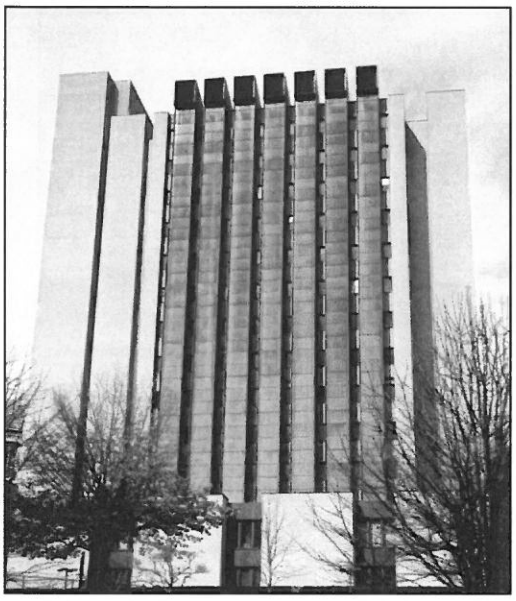
**Contact:** John Hahn **Cost:** $17million
Assistant Director of Facilities Management
**Owner:** St. Francis University
167 Lakeview Drive, Loretto, PA 15940
(814) 472-3252 jhahn@francis.edu

# CHEVRON SCIENCE CENTER (HVAC Upgrades)

## The University of Pittsburgh

## Pittsburgh, PA



**DGS 1103-69**

Originally opened in 1974, and formerly known as the Gulf Science Building, this 15-story structure has been home to the nationally acclaimed university chemistry program, whose advancements have included: ► Development of the carbon 14 dating technique, and ► Development of the world's most powerful permanent magnet.

Over the years, many lab areas, and pieces of equipment had been added to Chevron Science Center. These additions had outstripped the original HVAC systems' capabilities to provide adequate ventilation to insure proper equipment and system operation.

### HVAC Upgrade

Demolition and General Concerns included:

- Four (4) deteriorated and undersized central station air-handling systems were removed. Units were 100% outside air and equipped with steam heating and chilled water-cooling. System components were originally built into this building in equipment rooms located on the 4th and 11th floors.

- Removal of over 100 constant volume, inline, fume hood and general laboratory exhaust fans. Existing fans were located in "doghouses" at the roof. Their orientation and construction created an unacceptable noise situation for the residential neighborhood to the east.

- Due to ongoing, long-term experiments at the building, an extended shutdown of the main HVAC Systems was unacceptable to the University. As such, this situation required a creative, and non-typical solution to accomplish this magnitude of upgrade.

### Construction

The four central station supply air fan systems were replaced with one 280,000 CFM central station rooftop air-handling unit. The unit was also configured to house a central exhaust system on the upper portion as a means of consolidating the individual exhaust systems. The extremely customized unit was equipped with the following:

**1**. All aluminum construction to meet the weight limitations posed by adding such a significant load at the top of a 15-story structure.

**2**. Inlet air sound attenuators to reduce noise levels to the community.

**3**. Integral face and bypass steam heating coils with vertical tubes were used to improve freeze protection.

**4**. Chilled water-cooling coils provided for air conditioning.

**5**. Condensate water from the chilled water coils was pumped to an evaporative cooler section of the exhaust side for energy recovery. It is believed that this approach is a first of its kind to be used in the Pittsburgh area. Total cooling load was reduced during peak temperature periods by 70 tons.

**6**. Two (2) "plug-type" plenum supply air fans were located in each of the two discharge sections of the unit. Fans were individually controlled with variable frequency drives to provide a maximum delivery capability per fan of 70,000 cfm at 8" static pressure. The intent of the system

# US Army Corp of Engineers
# Theater Support Facility
## Bagram Air Field, Bagram, Afghanistan

**The Project:**

This Theater Support Facility was constructed in 2011 by the U.S. Army Corp of Engineers as a military intelligence facility located at the Bagram, Afghanistan Air Field. It will provide the military team a secure building with no windows and a hardened exterior. The floor plan includes mission planning rooms, mass briefing rooms, conference rooms, a communication room, staff offices, etc. The facility was designed to be manned 24/7 and is intended to provide support to the war theater for planning and in real time situations.

**CJL Engineering Design Solutions:**

All systems were constructed to US Army Corp of Engineer Standards.

- The HVAC design features an energy recovery make-up air system utilizing chilled water and auxiliary electric SCR controlled heating coil. Ducted fan coil units were fed chilled water from a central chilled water system with a high efficiency, multi-stage air cooled chiller, pumps, and auxiliaries constructed for the building. A direct digital control system provides computer based controls of all systems
- In addition to standard electrical systems, extreme security is paramount. Cameras allow for 270 degree monitoring. Rooms are furnished with security systems, including monitoring
- There are separate systems for secured and unsecured telecommunication systems
- For secured rooms, non-conducting data would not be transmitted for security purposes
- In addition to normal electrical power being provided by a power generation system using diesel generators for the airport, standby diesel generators provide back-up power to 100 percent of the facility

**Contact:** Louis Mittelman, PE, PMP, LEED
**Michael Baker Corporation**
Airside Business Park, 100 Airside Drive
Moon Township, PA 15108
(412) 375-3124 lmittelman@mbakercorp.com
**Cost:** $15 million

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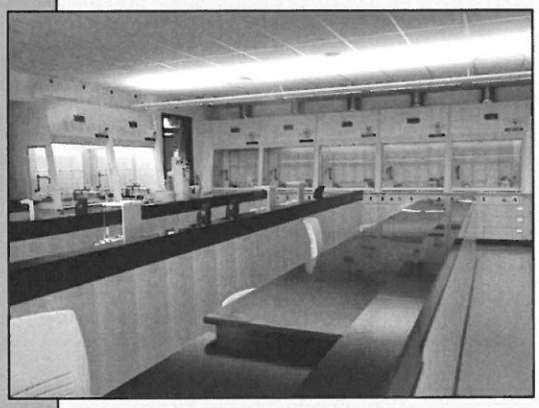
# K. Leroy Irvis Science Center (LEED Silver Anticipated)
## Community College of Allegheny County
## Pittsburgh, PA



**The Project:**

CJL Engineering designed the Mechanical and Electrical Systems for the new 65,000 sq. ft. K. Leroy Irvis Science Center on the Allegheny Campus of the Community College of Allegheny County. This five-story science and technology facility serves the expanded Allied Health programs offered by CCAC. The $24 million building has been designed to achieve LEED® Silver Certification.

**CJL Engineering Design Solutions:**

- Multiple air-handling units, variable frequency Air Delivery Systems for energy savings, passive desiccant cooling, and a propylene glycol heat recovery loop
- The fume hoods in the lab areas have manifolded Exhaust Systems, heat recovery and unique exhaust stack discharge dampers to provide a minimum stack discharge velocity of 3,000 FPM with a variable volume fan (VVF) Control System. Discharge velocity provides a 30 ft. exhaust plume preventing any re-entrainment of fumes into the building
- A 3-Phase, 277/480-volt secondary Electrical Service, main and sub-distribution switchboards, and dry-type transformers
- Back-up natural gas generator for emergency lighting
- Addressable Fire Alarm System, and empty Conduit System for the IT Network
- Domestic cold and hot water and hot water return systems, sanitary sewer, storm sewer and a natural gas distribution
- Lab Systems include central compressed air, vacuum, acid waste piping with acid-neutralizing sumps. Emergency shutdown controls in the natural gas distribution design
- A wet sprinkler and standpipe system, and a pre-action Sprinkler System serve various parts of the building, per local fire codes
- Dual flush toilets and ultra low flow urinals (0.16 / Flush)

**Contact:** Donald Fedor **Cost**: $24 million
Director, Facilities Management Division
**Owner:** Community College of Allegheny County
Jones Hall, Room 101, Pittsburgh, PA 15212
(412) 237-3111 dfedor@ccac.edu

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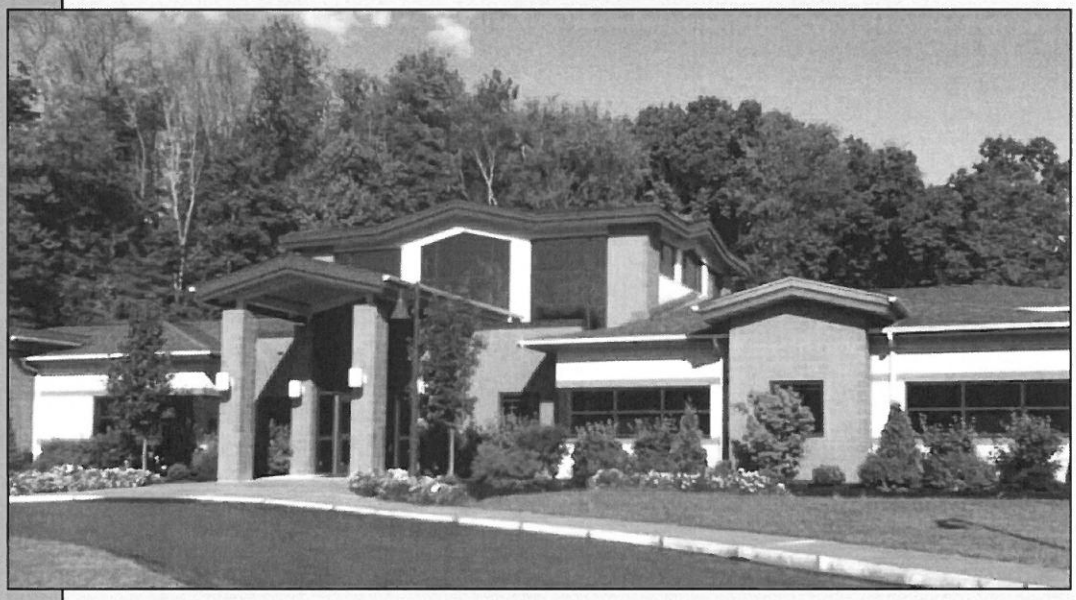
# Richland Township Municipal Building
## Richland Township
## Gibsonia, PA



**The Project:**

The Richland Township Municipal Building is a 12,760 sq. ft. facility that is located in Gibsonia, a suburb of Pittsburgh, PA. The structure is situated on a 48-acre municipal campus that includes the community's library. The building houses all of the Township's municipal functions, except Police and Public Works. It was designed to achieve numerous green features, including the use of large expanses of natural light, and a Geothermal System. A reflective roof covers a large portion of the building.

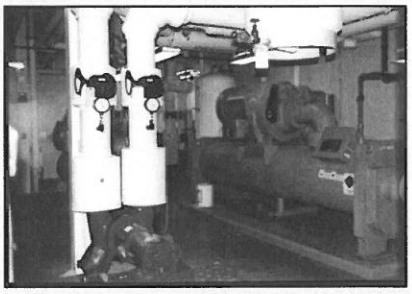
**CJL Engineering Design Solutions:**

- Tie the building into existing campus infrastructure
- Incorporates LEED guidelines into the building design
- Geothermal System for heating and cooling
- Power distribution for circuiting, computers and servers, data cabling and distribution
- Combined controls for Lighting / Sound and Multi-Media

**Cost:** $2.75 million **Completed:** 2010
**Contact:** Dean Bastianini, Township Manager
**Owner:** Richland Township, 4019 Dickey Rd., Gibsonia, PA 15044
T. (724) 443-5921 rtdean@zoominternet.net

CJL ENGINEERING

# Master Plan and Implementation
## Punxsutawney Hospital
## Punxsutawney, PA

**The Project:**

CJL Engineering provided Mechanical and Electrical Master Planning, along with a variety of Open-Ended renovations and upgrades to Punxsutawney Hospital, including the replacement of its 30-year-old Chilled Water Plant. The hospital is located in rural Jefferson County, PA.

**Chilled Water Plant:**

- Project included the removal of CFC chillers
- Increased plant tonnage from 400 tons to 550 tons to accommodate a major patient wing expansion
- To assist in fast tracking the project, new chillers and cooling tower were pre-purchased; design was completed while this equipment was being manufactured
- New chillers were of improved efficiency (kw/ton) and utilized environmentally friendly, R-134a refrigerant
- Cooling tower was equipped with a variable speed drive for energy savings
- Reworked primary / secondary piping
- New primary system pumps
- New secondary chilled water pumps were provided with variable speed drives for energy savings
- Reworked main / secondary piping loop
- Design new 34,500-volt Primary Power service, plus a 1,000 kVA 34,500-480Y/277-volt transformer and a 1,000 kVA 34,500-208Y/120-volt transformer.

**Project Cost**: $535,000 **Completed**: 2002
**Contact:** Dana Hartle, Director of Support Services
**Owner**: Punxsutawney Hospital, 81 Hillcrest Drive, Punsxutawney, PA 15767
(814) 938-1888 dhartle@pah.org

CJL ENGINEERING

EXPRESSION OF INTEREST

GSD 146440 Design Services for Various Maintenance Projects

CJL Engineering

A Signed Copy of **GSD146440, Addendum No. 1** follows:

## ADDENDUM ACKNOWLEDGEMENT FORM
**SOLICITATION NO.:** GSD146440

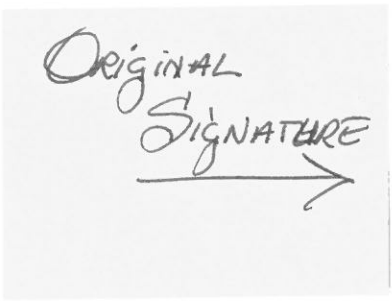
**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**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)

| | |
|---|---|
| [✓] Addendum No. 1 | [ ] Addendum No. 6 |
| [ ] Addendum No. 2 | [ ] Addendum No. 7 |
| [ ] Addendum No. 3 | [ ] Addendum No. 8 |
| [ ] Addendum No. 4 | [ ] Addendum No. 9 |
| [ ] Addendum No. 5 | [ ] 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.




CJL ENGINEERING, INC
Company

Authorized Signature

7/22/19
Date

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