





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

# Request for Quotation

RFQ NUMBER  
**GSD096435**

PAGE  
**1**

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

RFQ COPY

TYPE NAME/ADDRESS HERE

**JAMES Vizzini  
 CJL Engineering  
 1550 Coraopolis Heights Road  
 Moon Township, PA 15108**

SHIP TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
01/14/2009				
BID OPENING DATE: 02/19/2009		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07		
<p><b>A&amp;E SERVICES: DESIGN OF BLDG#9 CHILLER LOOP CHANGES</b></p> <p><b>EXPRESSION OF INTEREST (EOI)</b></p> <p>THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR THE CHILLED WATER SYSTEM IN BUILDING 9 LOCATED ON THE WEST VIRGINIA STATE CAPITOL COMPLEX IN CHARLESTON, WEST VIRGINIA PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS PROJECT MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 01/29/2009 AT THE CLOSE OF BUSINESS. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY, WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.</p> <p>QUESTIONS CONCERNING THE PROCESS BY WHICH A VENDOR MAY SUBMIT AN EXPRESSION OF INTEREST TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TO BE TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE EOI OPENING DATE AND IN ANY FOMAT.</p> <p><b>BANKRUPTCY:</b> IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT MAY BE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *James M. Vizzini* TELEPHONE **814-536-1651** DATE **18 Feb 09**  
 TITLE *Partner-in-Charge* FIRM **25-1889973**

ADDRESS CHANGES TO BE NOTED ABOVE

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

**GENERAL TERMS & CONDITIONS**  
**REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

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**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



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

# Request for Quotation

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 304-558-2596**

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**James Vizzini  
 CJL Engineering  
 1550 Coraopolis Heights Road  
 Moon Township, PA 15108**

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
01/14/2009				

ID OPENING DATE: **02/19/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>DEEMED NULL AND VOID, AND TERMINATED WITHOUT FURTHER ORDER.</p> <p>NOTICE</p> <p>A SIGNED EOI MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            BUILDING 15            2019 WASHINGTON STREET, EAST            CHARLESTON, WV 25305-0130</p> <p>THE EOI SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE EOI MAY NOT BE CONSIDERED:</p> <p>SEALED EOI</p> <p>BUYER: KRISTA FERRELL-FILE 21</p> <p>EOI. NO.: GSD096435</p> <p>EOI OPENING DATE: FEBRUARY 19, 2009</p> <p>EOI OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR EOI:            814-536-5732</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>James M. Vizzini</i>	TELEPHONE 814-536-1651	DATE 18 FEB 09
TITLE <i>Partner-in-Charge</i>	FEIN 25-1889973	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

# Request for Quotation

RFQ NUMBER  
**GSD096435**

PAGE  
**3**

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

RFQ COPY

**TYPE NAME/ADDRESS HERE**

James Vizzini  
 CJL Engineering  
 1550 Coraopolis Heights Road  
 Moon Township, PA 15108

SHIP TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/14/2009				
BID OPENING DATE: 02/19/2009		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
CONTACT PERSON (PLEASE PRINT CLEARLY):						
<i>James M. Vizzini</i>						
***** THIS IS THE END OF RFQ GSD096435 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>James M. Vizzini</i>	TELEPHONE 814-536-1651	DATE 18 Feb 09
ROLE Partner-in-Charge	PEIN 25-1889973	ADDRESS CHANGES TO BE NOTED ABOVE

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

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**VENDOR OWING A DEBT TO THE STATE:**

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

**PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:**

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

**ANTITRUST:**

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

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

**LICENSING:**

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

**CONFIDENTIALITY:**

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

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

Vendor's Name: CJK Engineering  
Authorized Signature: James M. Vinyard/Kris Date: 18 FEB 09

Department of Administration  
Purchasing Division, Building 15  
2019 Washington Street, East  
Charleston, WV 25305-0130

**SUBMISSION:**                    **Expression of Interest**

**BUYER**                            Krista Ferrell-File 21

**EOI No.:**                        GSD096435

**EOI OPENING DATE:**        February 19, 2009

State of West Virginia  
Department of Administration  
General Services Division  
Building #9 – Culture and History  
1900 Kanawha Boulevard, East  
Charleston, WV 25305

**PROJECT:**                    **Building #9 Chiller Loop Changes**

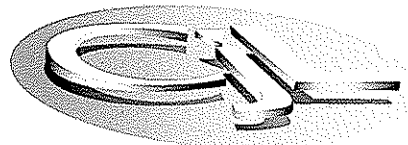
**SUBMITTED BY:**                CJL Engineering

**CONTACT:**                    James M. Vizzini, P.E., Managing Partner  
LEED® Accredited Professional

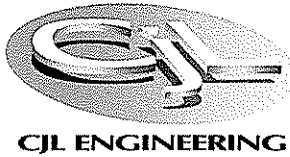
Cell:            814 322-5457

Tel:            814 536-1651

Fax:            814 536-5732



**CJL ENGINEERING**



PITTSBURGH ▼ JOHNSTOWN ▼ YOUNGSTOWN

February 13, 2009

Ms. Krista Ferrell, Senior Buyer  
Department of Administration  
Purchasing Division  
Building 15  
2019 Washington Street, East  
Charleston, WV 25305-0130

Req#: GSD 096435  
Chilled Water Renovations for Building #9

Dear Ms. Ferrell:

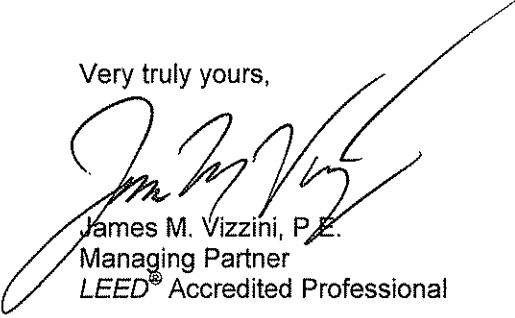
CJL Engineering is pleased to submit its credentials in consideration for project GSD 096435, Chiller Loop Changes at Building #9, State of West Virginia Capitol Complex.

We take pride in providing a superior level of engineering services to our clients. Together with our Architectural Consultant, Perfido Weiskopf Wagstaff + Goettel, we are proud to be currently working for the State of West Virginia on the historic Building #3 renovation in the Capitol Complex. As the Lead Engineer on this project, we have an understanding of the existing Chilled Water Plant operation (located across the street from Building #5) which currently serves the air-conditioning needs of Building #3. Our working understanding of the existing Chilled Water Plant infrastructure of the Capitol Complex will be a valuable asset to us should we be selected for the Chilled Water Plant renovations for Building #9.

Please refer to the Project Concept section of this submission for a comprehensive view of our engineering strategy for this project.

We sincerely appreciate the opportunity to submit our qualifications and hope to have the opportunity to present our credentials in person.

Very truly yours,



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

JMV/dl  
P09-019-J

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1550 Coraopolis Heights Road, Suite 340 ▼ Moon Township, PA 15108 ▼ P: 412-262-1220 ▼ F: 412-262-2972 ▼ E: [cjlpgh@cjlengineering.com](mailto:cjlpgh@cjlengineering.com)

232 Horner Street ▼ Johnstown, PA 15902-1922 ▼ P: 814-536-1651 ▼ F: 814-536-5732 ▼ E: [cjijt@cjlengineering.com](mailto:cjijt@cjlengineering.com)

1044 N. Meridian Road, Suite B, Youngstown, OH 44509 ▼ P: 330-746-1360 ▼ F: 330-746-7000 ▼ E: [cjlytn@cjlengineering.com](mailto:cjlytn@cjlengineering.com)

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[www.cjlengineering.com](http://www.cjlengineering.com)



**Building #9 Chiller Loop Changes  
West Virginia Capitol Complex**

■ ■ ■

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**1 – Concept**

**2 – Firm/Team Qualifications**

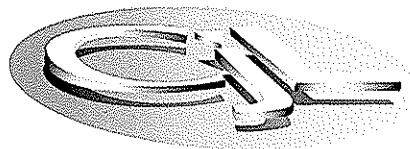
- a. Contact Info**
- b. Resumes**
- c. Design Team Data**
- d. Statement of Ability**
- e. Statement of Acceptance and Understanding**
- f. Evidence of Design Conformance**
- g. Description of Litigation or Arbitration Proceedings**

**3 – Project Organization**

- a. Personnel Data and Organizational Chart**
- b. Statement of Ability on Time Frame and Proposed Project Schedule**

**4 – Demonstrated Experience in Completing Projects of a Similar Size and Scope**

- a. Relevant Projects**
- b. References**



**CJL ENGINEERING**

## **Building #9 Chilled Loop Changes** West Virginia Capitol Complex

### **Project Concept**

The West Virginia Capitol Complex comprises numerous buildings; the larger buildings are tied into a remote central Chilled Water Plant (CWP). The CWP is located across the street from Capitol Complex Building #5. The CWP is arranged in a fairly standard fashion with the usual system components such as multiple centrifugal chillers, cooling towers, plate frame heat exchangers for winter- free cooling and chilled water distribution pumps.

The chilled water distribution is set up in what was, at the time, a conventional primary/secondary/tertiary arrangement. Primary run-around pumps maintain circulation through the main header and the individual chillers. The larger secondary pumps move the water from the plant and out into the campus loop to the various building service entrances. From there, the secondary chilled water lines are tapped off in a bridge arrangement and water is circulated to each building's terminal equipment by their own tertiary pumps.

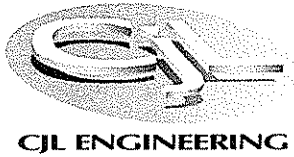
Having been involved at the Capitol Complex as the lead engineer on the Building #3 renovation project, we have a thorough understanding of the existing CWP operations. We have surveyed the plant and spoken to the operator as it is very important for us to know what it is we will be designing into as the main means of air-conditioning to Building #3.

It is also somewhat ironic that this request for EOI has come out as we have had the discussion with the Capital Complex Engineer about the possibility of a potential decoupling of Building #3 from the CWP. Just to be clear, our decoupling arrangement does not plan on removing Building #3 from the CWP service, rather it is being designed to separate the secondary chilled water from the building tertiary chilled water via the use of a plate frame heat exchanger. We are proposing this as a superior way of controlling the chilled water temperature differential back to the CWP. By increasing the water temperature back to the CWP, overall plant efficiency will be improved.

The above work we are planning at Building #3 is our recommendation, at least for this first major project, to allow better control of the returning chilled water temperature to the chillers. This is proposed to alleviate a condition common to many primary/secondary/tertiary chilled water pumping arrangements; lower than desired returning chilled water temperatures. This reduction in the overall delta-tee has a direct correlation to overall plant efficiency and available capacity tonnage.

Given all above stated information, we are fully aware of what it is you are requesting be done at Building #9. Unlike what we are doing at #3, this project will entail the construction of a small Chilled Water Plant to independently serve the chilled water needs of this building. From the EOI Request, we also understand the Complex requires the ability to switch from self-generation of chilled water back to the CWP whenever the building's chillers are off-line. We would propose to set up this back up connection in a similar fashion to our design of Building #3. In this proposed scenario, when the CWP is needed to serve Building #9, secondary chilled water delta-tee can be maximized and the overall tonnage needed at the plant can be better controlled and subsequently minimized.

Having been involved in central utility plant design and upgrade projects for the past 17 years, the above makes perfect sense to us. It may be a bit confusing to those who have not lived in that world. To better articulate our approach, we obviously welcome the opportunity to sit down with the Selection Committee to review this in-depth and to answer any questions that the Committee may have. We appreciate the Committee's time in reviewing all that we are presenting and look forward to the time where we may speak about this project in person.



PITTSBURGH ▼ JOHNSTOWN ▼ YOUNGSTOWN

**Chilled Water Renovations for Building #9  
Requisition Number: GSD096435  
Response 4.2.2.a**

James M. Vizzini, P.E.  
Managing Partner, LEED<sup>®</sup> Accredited Professional  
**CJL Engineering**  
1550 Coraopolis Heights Road, Suite 340  
Moon Township, PA 15109-2973

[jvizzini@cjlengineering.com](mailto:jvizzini@cjlengineering.com)

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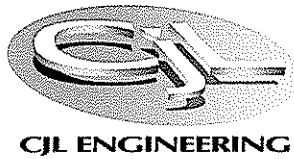
232 Horner Street ▼ Johnstown, PA 15902-1922 ▼ P: 814-536-1651 ▼ F: 814-536-5732 ▼ E: [cjljt@cjlengineering.com](mailto:cjljt@cjlengineering.com)

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**Chilled Water Renovations for Building #9  
Requisition Number: GSD096435  
Response to 4.2.2.b.**

The following list provides the names and functions of the individuals within the lead firm's organization who will be assigned to this project. Detailed resumes follow this page.

James M. Vizzini, P.E.  
Partner-in-Charge  
On-Site Reconnaissance/Scope Determination

Matthew R. Sotosky, P.E.  
Managing Partner  
Quality Assurance/Central Plant Review

Kent A. Lewis, P.E., LC  
Electrical Engineer/Designer/Cost Estimating

Herbert P. Oldham  
Senior Associate  
Mechanical Designer/Specification Writer/Cost Estimate

Mark A. Rosko, P.E.  
Associate  
Mechanical Engineer/Designer

Glenn Brown  
Electrical Design

Jim Kick  
Mechanical Design

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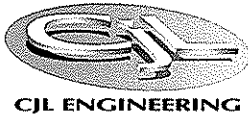
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[www.cjlengineering.com](http://www.cjlengineering.com)



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

James M. Vizzini is a Mechanical Engineer and a Managing Partner of CJL ENGINEERING, responsible for management decisions, current projects, architect and client relationships and new business development. Mr. Vizzini is LEED® Accredited by the U.S. Green Building Council. Mr. Vizzini oversees the design of HVAC systems for various commercial, institutional and educational projects, as well as college, university and healthcare projects. These range from large equipment replacement such as boilers and air-handling units, CFC upgrades and chiller replacements to entire HVAC systems design. He has also been the project engineer on various Department of General Services projects for the Commonwealth of PA.

His Noteworthy Chilled Water Plant projects include:

HISTORIC RETROFIT: **Benedum Center for the Performing Arts**, Pittsburgh, PA (550 Tons)

HISTORIC RETROFIT: **Allegheny County Soldiers and Sailors Memorial Hall**, Pittsburgh, PA

NEW: **University of Pittsburgh, Upper Campus Chilled Water Plant** (5100-Ton Plant) and Chilled Water Distribution and Steam Line Extension Pittsburgh, PA

RETROFIT: **Chevron Science Center**, Pittsburgh, PA

HISTORIC RETROFIT: **CCAC - West Hall**, Pittsburgh, PA

RETROFIT: **Cambria County War Memorial Arena**, Johnstown, PA (300 tons)

NEW: **North Central Recreation Center & Ice Rink**, Ebensburg, PA (105 Tons)

RETROFIT: **Oglebay Hall - West Virginia University**, Morgantown, WV

RETROFIT: **Westinghouse Building**, Stanwix Street, Pittsburgh, PA (2200 tons)

RETROFIT: **Cambria County Central Park Complex**, Johnstown, PA (250 tons)

RETROFIT: **Chesapeake City Hall**, Chesapeake, VA (1000 tons)

RETROFIT: **Punxsutawney Hospital**, Punxsutawney, PA (600 tons)

NEW: **Jamestown District Chiller Plant**, Jamestown, NY (600 tons)

RETROFIT: **Fox Chapel High School**, Pittsburgh, PA (450 tons)

RETROFIT: **NGA Arnold – Data Center**, Arnold, MO (320 tons)

NEW: **NASA IVVC**, Fairmont, WV (450 tons)

RETROFIT: **Norwin High School**, North Huntingdon, PA (1100 tons)

RETROFIT: **YSU – Phase 2 Decoupling**, Youngstown, OH (3,600 tons)

RETROFIT **Wabash General Hospital**, Wabash, IL (400 tons)

**TITLE:**

Managing Partner  
CJL ENGINEERING - Johnstown

**SPECIALIZATION:**

Mechanical Engineering  
Master Planning  
District Cooling Plants

**EDUCATION:**

B.S. / 1987 / MECHANICAL  
ENGINEERING TECHNOLOGY  
*University of Pittsburgh at Johnston*

**REGISTERED PROFESSIONAL  
ENGINEER:**

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

**MEMBERSHIPS/ACTIVITIES:**

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

Pennsylvania Society of  
Professional Engineers (PSPE)

U.S. Green Building Council

*Construction Specifying Engineer*

October, 2006

Featured in: "Full of Hot Air?"

Profiling the Chevron Science  
Center Renovation, University of  
Pittsburgh



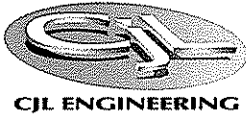
**West Virginia State Board of Registration  
for Professional Engineers**

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**JAMES M VIZZINI  
WV PE # 14468**

This is to certify that the above named **PROFESSIONAL ENGINEER**  
has met the requirements of the law, is duly registered and is  
entitled to practice engineering in the State of West Virginia.

**EXPIRES JUNE 30, 2009**



**Matthew R. Sotosky, P.E. LEED® Accredited Professional**

Matthew R. Sotosky is Managing Partner of CJL ENGINEERING. His responsibilities include: overseeing and managing mechanical and electrical engineering projects, management decisions, operations, project scheduling, architect and client relationships and new business development.

Mr. Sotosky has extensive experience in Commissioning HVAC, Plumbing and Fire Protection / Detection Systems Design. Mr. Sotosky has over 20 years of engineering experience working on a variety of project types.

Mr. Sotosky's **Noteworthy Chilled Water Plants** include:

- AT&T 'Platinum' Building, Pittsburgh, PA
- Garrett County Memorial Hospital, Oakland, MD
- NASA Independent Verification & Validation Center, Fairmont, WV
- Northside Medical Center – Forum Health, Youngstown, OH
- Trumbull Memorial Hospital – Forum Health, Youngstown, OH
- University of Pittsburgh – Upper Campus Chilled Water Plant, Pittsburgh, PA
- Williamson College of Business – Youngstown State University, Youngstown, OH

Additional key projects include:

**Forum Health:**

- Northside Medical Center, Youngstown, OH
- Trumbull Memorial Hospital, Warren, OH
- Hillside Rehabilitation Hospital, Warren, OH
- Beegley 'B' Medical Park, Boardman, OH

**Healthcare:**

- BJC Healthcare, St. Louis, MO
- Bluefield Regional Medical Center, Bluefield, WV
- Corry Memorial Hospital, Corry, PA
- Clearfield Hospital, Clearfield, PA
- Dubois Regional Medical Center, Dubois, PA
- Elk Regional Health Center, St. Marys, PA
- Garrett County Memorial Hospital, Oakland, MD
- Hamot Medical Center, Erie, PA
- Meadville Medical Center, Meadville, PA
- Muncy Valley Hospital, Muncy, PA
- Punxsutawney Area Hospital, Punxsutawney, PA
- UPMC Health System, Pittsburgh, PA

**Campus Infrastructure:**

- Clarion University of Pennsylvania, Steam Line Replacement, Clarion, PA
- University of Pittsburgh, Pittsburgh, PA
  - High-Pressure Steam Line (Replacement & Extension)
  - Comprehensive Facilities Assessment - Oakland Housing
  - Infrastructure Evaluation (Steam)

**TITLE:**

Managing Partner  
CJL ENGINEERING

**SPECIALIZATION:**

Mechanical Engineering  
Healthcare & Central Plants  
'Geothermal' Systems  
Commissioning

**EDUCATION:**

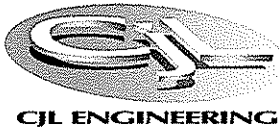
B.S. / 1989 / Mechanical Engineering  
University of Pittsburgh

**REGISTERED PROFESSIONAL ENGINEER:**

Pennsylvania  
Maryland  
Ohio  
Michigan  
Texas  
West Virginia  
Kentucky  
Missouri  
Illinois  
Florida  
Georgia

**MEMBERSHIPS/ACTIVITIES:**

- International District Energy Association (IDEA)
- American Society of Mechanical Engineers (ASME)
- American Society of Plumbing Engineers (ASPE)
- American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE),
- Association for the Society of Hospital Engineers (ASHE)
- International Ground Source Heat Pump Association (IGSHPA)
- Pennsylvania Society of Professional Engineers (PSPE)
- National Society of Professional Engineers (NSPE)
- U.S. Green Building Council (USGBC)



**Kent A. Lewis, PE, LC LEED® Accredited Professional**

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

**Representative Projects:**

**Education**

Pittsburgh Board of Education, Center for the Creative and Performing Arts High School, Pittsburgh, PA  
University of Pittsburgh Blaisdell Hall, Bradford, PA  
Davidson College Grey Music Hall, North Carolina  
Point Park University Dance Studio, Pittsburgh, PA - LEED® certified  
Penn State University  
Behrend College Lab/Student Complex, Erie, PA  
Scheyers Honors College, University Park, PA  
Watts Hall Renovation, University Park, PA  
Lebanon Valley College Garber Science Center, Annville, PA  
Grafton Middle/High School, Grafton, VA  
Seton Hill University, Administration and Theater Buildings, Greensburg PA  
Westminster College, McKelvey/Thompson Clark Halls, New Wilmington, PA  
Butler County Community College Science Technology and Cultural Center  
Science Technology and Cultural Center  
Washington & Jefferson College Vilar Technology Center, Washington, PA

**Corporate**

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

**Hotels**

Pittsburgh Convention Center Hotel, Pittsburgh, PA

**Churches**

St. Paul's Cathedral, Pittsburgh, PA  
Blessed Sacrament Cathedral, Greensburg, PA

**Health Care**

UPMC Presbyterian Hospital Diagnostic/Treatment Center, Pittsburgh, PA  
UPMC Passavant Hospital, various electrical design projects  
UPMC Passavant Hospital, North Hills, PA, Pavilion Addition - LEED®  
Ohio Valley Hospital Special Procedures Suite, McKees Rocks, PA  
UPMC Montifiore Bridge - Pittsburgh, PA

**Transportation**

Dulles Airport APM Station - Washington, DC

**Theater**

O'Reilly Theater, Pittsburgh Public Theater Offices, Pittsburgh, PA

**TITLE:**

Managing Partner

**SPECIALIZATION:**

Lighting Consulting

**EDUCATION:**

The Pennsylvania State University,  
University Park, PA  
Bachelor of Architectural  
Engineering 1984

**REGISTERED PROFESSIONAL  
ENGINEER:**

Pennsylvania  
West Virginia  
Ohio  
Illinois  
North Carolina  
Georgia

**MEMBERSHIPS/ACTIVITIES:**

LEED® Accredited Professional

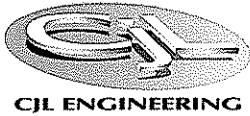
Illuminating Engineers Society of  
North America

Hospital Engineers Society Member  
- Pittsburgh, PA

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

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





## ***Herbert P. Oldham***

Mr. Oldham serves as a Senior Associate of CJL Engineering and is the Manager of the HVAC Department. Previously he held Construction Manger and HVAC Designer positions for numerous commercial and institutional projects. In providing construction management services, Mr. Oldham periodically visits construction sites to ensure that the Contractors are conforming to the contract drawings and specifications. Mr. Oldham's vast experience in the contracting field enhances his construction observation abilities with CJL Engineering. Some of his **Noteworthy Chilled Water Plants** include:

**Benedum Center for the Performing Arts**, Pittsburgh, PA

**Mohawk Junior/Senior High School**, Bessemer, PA

**Logan Middle School**, North Versailles, PA

**North Central Recreation Center & Ice Rink**, Ebensburg, PA

**Clarion University of Pennsylvania - Founders Hall**, Clarion, PA

**Community College of Allegheny County - Jones and West Halls**, Pittsburgh, PA

**Gateway High School**, Monroeville, PA

**Crawford County AVTS**, Meadville, PA

**Delahunty Middle School**, Hermitage, PA

**Indiana University of Pennsylvania - Cogswell Hall**, Indiana, PA

**Jamestown Ice Rink & District Chiller Plant**, Jamestown, NY

**Norwin Middle School**, Irwin, PA

**University of Pittsburgh**, Pittsburgh, PA

**Cambria County War Memorial Arena & Frank J. Pasquerilla Conference Center**, Johnstown, PA

### **TITLE:**

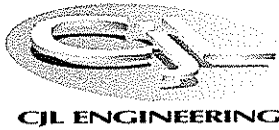
Senior Associate  
CJL ENGINEERING - Johnstown

### **SPECIALIZATION:**

Mechanical Engineering  
Healthcare & Central Plants  
Higher Education

### **EDUCATION:**

B.S. / 1985 / MECHANICAL  
ENGINEERING TECHNOLOGY  
University of Pittsburgh



**Mark A. Rosko, P.E.**

Mark A. Rosko is a Mechanical Engineer and an Associate with CJL Engineering. He joined the firm in 2007. Previously, Mr. Rosko provided technical engineering services for firms in Ebensburg, PA and Springfield, VA.

Mr. Rosko is responsible for the design and specification of HVAC and other mechanical systems for educational, healthcare, commercial, and corporate 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 client.

**Representative Projects:**

- West Virginia Capitol Complex – Building #3, Charleston, WV
- University of Pittsburgh, Cathedral of Learning & Fitzgerald Field House, Pittsburgh, PA
- PANG Readiness Center, Hermitage, PA
- Rescar, Repair Facility, DuBois, PA
- Solar Power Industries, Manufacturing Facility, Pittsburgh, PA
- Wabash General Hospital, Mount Carmel, IL (Chiller Plant Upgrade)
- City of Chesapeake City Hall, Chesapeake, VA (HVAC & Chiller Plant Upgrade)
- CCAC Boyce Campus, Monroeville, PA (Chiller Replacement)

**Previously:**

- Altoona Area School District, Baker Elementary & New Junior High School, Altoona, PA\*
- Hanover Public School District, Clearview Elementary, LEED Silver, Hanover, PA\*
- State College School District, Park Forest Middle School, State College, PA\*
- The Pennsylvania State University, New Penn State Baseball Stadium, State College, PA\*
- Indiana University of Pennsylvania, Convocation Center, Indiana, PA\*
- Windber Research Institute, Laboratory, Windber, PA
- Laurel Crest Manor Nursing Home, Utility Consumption Study, Ebensburg, PA\*
- Conemaugh Medical Center, Regional Offices, Parkhill & Portage, PA\*
- Blair Plastic Surgery, Office, Altoona, PA\*
- 328 Innovation Park, Shell Office Building, State College, PA\*
- 328 Innovation Park, Tenant Fit-outs, State College, PA\*
- Penn Traffic Building, Study, Johnstown, PA\*
- John P. Murtha Johnstown-Cambria County Airport, Addition to Terminal, Johnstown, PA\*

\* Afore-mentioned projects performed at a prior firm

**TITLE:**

Associate

**SPECIALIZATION:**

Mechanical Engineering

**EDUCATION:**

University of Pittsburgh at Johnstown, PA

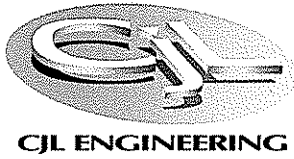
B.S. – Mechanical Engineering Technology - 1999

**REGISTERED PROFESSIONAL ENGINEER:**

Pennsylvania

**MEMBERSHIPS / ACTIVITIES:**

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



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PITTSBURGH ▼ JOHNSTOWN ▼ YOUNGSTOWN

**Chilled Water Renovations for Building #9**  
**Requisition Number: GSD096435**  
**Response to 4.2.2.c.**

With response to item 4.2.2.c., the following pages provide a firm overview of CJL Engineering's (the lead firm) expertise as well as Perfido Weiskopf Wagstaff + Goettel, the design firm to be employed by CJL Engineering for this project.

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1550 Coraopolis Heights Road, Suite 340 ▼ Moon Township, PA 15108 ▼ P: 412-262-1220 ▼ F: 412-262-2972 ▼ E: [cjlpgh@cjlengineering.com](mailto:cjlpgh@cjlengineering.com)

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232 Horner Street ▼ Johnstown, PA 15902-1922 ▼ P: 814-536-1651 ▼ F: 814-536-5732 ▼ E: [cjljt@cjlengineering.com](mailto:cjljt@cjlengineering.com)

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1044 N. Meridian Road, Suite B, Youngstown, OH 44509 ▼ P: 330-746-1360 ▼ F: 330-746-7000 ▼ E: [cjlytn@cjlengineering.com](mailto:cjlytn@cjlengineering.com)

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[www.cjlengineering.com](http://www.cjlengineering.com)

# CJL ENGINEERING

## FIRM OVERVIEW



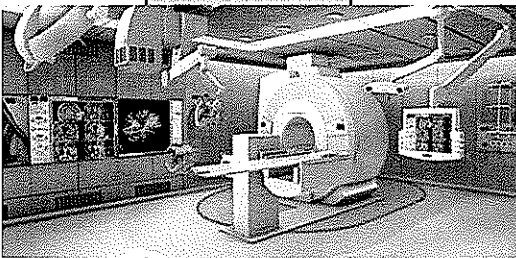
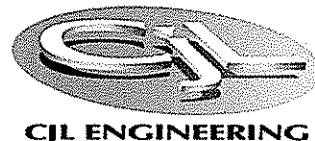
**CJL ENGINEERING** is a multi-disciplined Mechanical/Electrical/Civil consulting engineering firm that offers a full range of services, including analysis and concept, construction budgeting, detailed construction documentation and construction administration. With offices in Pittsburgh, Johnstown, PA, and Youngstown, OH, CJL has a combined staff of over 100 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.

The areas of specialization provided by **CJL ENGINEERING** include:

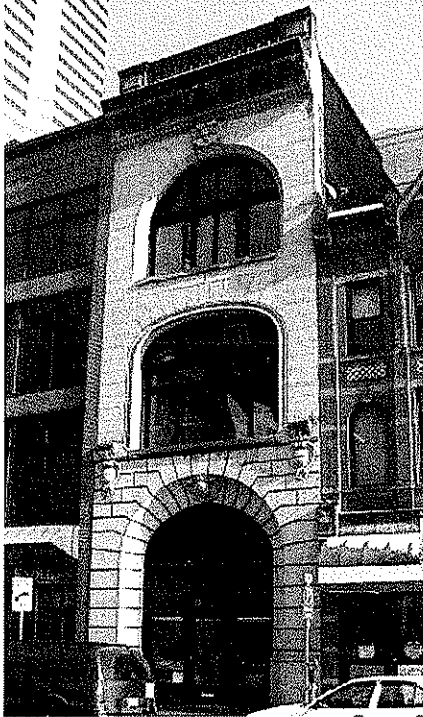
- HVAC Systems
  - Boiler
  - Chiller Central Plants
  - Geothermal Heat Pump Systems
  - Life Safety Systems
- Electrical Systems
  - Primary Power & Distribution
  - Cogeneration
  - Emergency, Standby Power
- Civil Engineering
  - Site Development
  - Subdivision - Water
  - Site Development - Sanitary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

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



## About

### Perfido Weiskopf Wagstaff + Goettel



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

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

Our work is guided by 3 principles:

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

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

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

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



February 10th, 2009

CONSULTANTS AGREEMENT

Perfido Weiskopf Wagstaff + Goettel, a design firm practicing architecture, planning and urban design, agrees to participate as a Consultant to CJL Engineering on a proposal to State of West Virginia, General Services Division #GSD 096435 Building #9 Capitol Complex, Chiller Loop Changes, Charleston, WV.

Sincerely,



Alan Weiskopf, AIA  
Principal-in-Charge

## 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, NY, NC & SC

### Professional Associations

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

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

### Notable Project Experience:

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

## Joe Filar AIA

Associate **Perfido Weiskopf Wagstaff + Goettel**



### Education

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

### Registration

Registered Architect in PA,

### Professional Associations

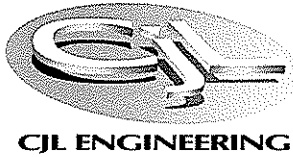
American Institute of Architects  
National Historic Trust  
Pittsburgh History &  
Landmarks Foundation  
Pittsburgh Downtown  
Partnership

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

### Notable Project Experience

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



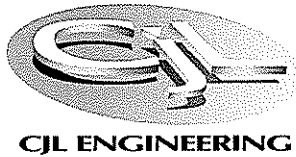


**Chilled Water Renovations for Building #9  
Requisition Number: GSD096435  
Response to 4.2.2.d.**

Upon review of this Request for Quotation, CJL Engineering is confident that the firm has the ability to provide the experience, expertise and manpower to manage this project in its entirety and in an on-time, on-budget manner. The following attributes help confirm, in a general and specific manner, our scope of capability for this project:

- Three Strategically Located Offices
- Approximately 100 Professional Personnel on Staff
- Successfully completed Chilled Water Plant upgrades as far away as:
  - Arnold, MO
  - Socastee, SC
  - Chesapeake, VA
- Successful upgrades in occupied buildings
  - Benedum Center For The Performing Arts
  - Chevron Science Center
  - Punxsutawney Hospital





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PITTSBURGH ▼ JOHNSTOWN ▼ YOUNGSTOWN

**Chilled Water Renovations for Building #9  
Requisition Number: GSD096435  
Response to 4.2.2.e.**

CJL Engineering fully understands and accepts that any and all work produced as a result of the contract will become property of the Agency and can be used or shared by the Agency as deemed appropriate. Further, upon project completion, CJL Engineering will, with the assistance of the installing contractor, generate a complete set of "as-built" plans. These will then be turned over to the Agency in either hard copy or disc form – whichever is preferred.

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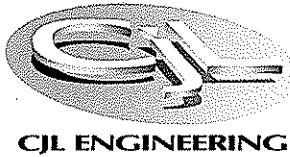
232 Horner Street ▼ Johnstown, PA 15902-1922 ▼ P: 814-536-1651 ▼ F: 814-536-5732 ▼ E: [cjljt@cjlengineering.com](mailto:cjljt@cjlengineering.com)

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[www.cjlengineering.com](http://www.cjlengineering.com)



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PITTSBURGH ▼ JOHNSTOWN ▼ YOUNGSTOWN

**Chilled Water Renovations for Building #9  
Requisition Number: GSD096435  
Response to 4.2.2.f.**

CJL Engineering has successfully completed many projects in the State of West Virginia. A few of the more noteworthy ones are hereby listed:

NASA – Independent Verification & Validation Facility, Fairmont  
WVU – Oglebay Hall  
The Church of Jesus Christ of Latter-Day Saints – Fairmont and Elkins  
Bluefield Regional Medical Center, multiple projects  
Crossroads Mall, Beckley  
St. Francis Desales Elementary School, Morgantown  
Fairmont State College, multiple projects  
Beckley Streetscape

Our experience with the above-listed projects, as well as the many others not listed, speak to the fact that CJL Engineering is thoroughly versed in all local, state and federal requirements with regards to building and systems design.

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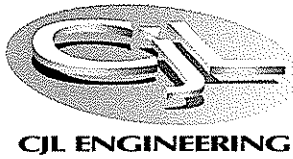
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[www.cjlengineering.com](http://www.cjlengineering.com)



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PITTSBURGH ▼ JOHNSTOWN ▼ YOUNGSTOWN

**Chilled Water Renovations for Building #9  
Requisition Number: GSD096435  
Response to 4.2.2.g.**

The following letter, signed by James M. Vizzini, P.E., serves as an affidavit of no legal proceedings against CJL Engineering.

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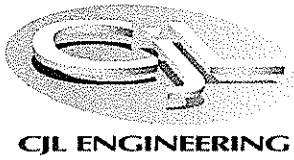
232 Homer Street ▼ Johnstown, PA 15902-1922 ▼ P: 814-536-1651 ▼ F: 814-536-5732 ▼ E: [cjljt@cjlengineering.com](mailto:cjljt@cjlengineering.com)

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1044 N. Meridian Road, Suite B, Youngstown, OH 44509 ▼ P: 330-746-1360 ▼ F: 330-746-7000 ▼ E: [cjlytn@cjlengineering.com](mailto:cjlytn@cjlengineering.com)

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[www.cjlengineering.com](http://www.cjlengineering.com)



PITTSBURGH ▼ JOHNSTOWN ▼ YOUNGSTOWN

February 13, 2009

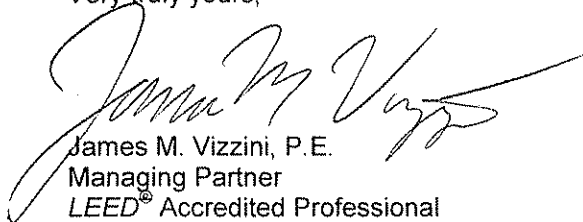
Ms. Krista Ferrell, Senior Buyer  
Department of Administration  
Purchasing Division  
Building 15  
2019 Washington Street, East  
Charleston, WV 25305-0130

Req#: Purchasing Affidavit  
GSD 096435  
Chilled Water Renovations for Building #9

Dear Ms. Ferrell:

Please accept this letter as certification that CJL Engineering is licensed in the State of West Virginia and has no legal proceedings (arbitration, complaint or court action) filed against it by a project owner. Our firm does not owe the State of West Virginia any back taxes or debt and our firm is not currently under suspension or debarment by the State of West Virginia, or any other state, or the federal government.

Very truly yours,



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

JMV/DL  
P09-019-J

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1550 Coraopolis Heights Road, Suite 340 ▼ Moon Township, PA 15108 ▼ P: 412-262-1220 ▼ F: 412-262-2972 ▼ E: [cjlpgh@cjlengineering.com](mailto:cjlpgh@cjlengineering.com)

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232 Horner Street ▼ Johnstown, PA 15902-1922 ▼ P: 814-536-1651 ▼ F: 814-536-5732 ▼ E: [cjljt@cjlengineering.com](mailto:cjljt@cjlengineering.com)

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1044 N. Meridian Road, Suite B, Youngstown, OH 44509 ▼ P: 330-746-1360 ▼ F: 330-746-7000 ▼ E: [cjlytn@cjlengineering.com](mailto:cjlytn@cjlengineering.com)

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[www.cjlengineering.com](http://www.cjlengineering.com)

# CERTIFICATE OF

# Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

*The West Virginia State Board of Registration for Professional Engineers  
having verified the person in responsible charge is registered in  
West Virginia as a professional engineer for the noted firm, hereby certifies*

**CJL ENGINEERING  
C00131-00**

**Engineer in Responsible Charge: KENT LEWIS - WV PE 016228**

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

**July 1, 2008 - June 30, 2009**

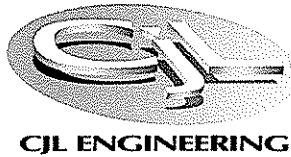
*providing for the practice of engineering services in the State of West Virginia.*

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE,  
PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.



IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF  
REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA  
UNDER ITS SEAL AND SIGNED BY THE PRESIDENT OF SAID BOARD.

*James D. Thomas, Jr.*  
BOARD PRESIDENT



**Chilled Water Renovations for Building #9  
Requisition Number: GSD096435  
Response to 4.2.3.a.**

CJL Engineering has three offices at the following locations:

1550 Coraopolis Heights Road, Suite 340  
Moon Township, PA 15108  
412-262-1220

232 Horner Street  
Johnstown, PA 15902-1922  
814-536-1651

1044 N. Meridian Road, Suite B  
Youngstown, OH 44509  
330-746-1360

The majority of the work for this project will be performed in the Johnstown office.

The following list provides information on the assigned personnel with regards to their location and other contact information:

James M. Vizzini, P.E.  
Partner-in-Charge  
232 Horner Street  
Johnstown, PA 15902  
814-536-1651

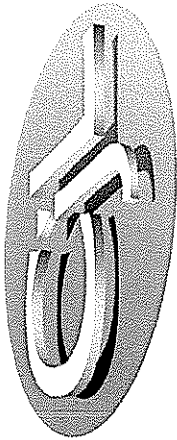
Kent A. Lewis, P.E.  
Managing Partner  
1550 Coraopolis Heights Road, Suite 340  
Moon Township, PA 15108  
412-262-1220

Matthew R. Sotosky, P.E.  
Managing Partner  
232 Horner Street  
Johnstown, PA 15902  
814-536-1651

Herbert P. Oldham  
Senior Associate  
232 Horner Street  
Johnstown, PA 15902  
814-536-1651

Mark A. Rosko, P.E.  
Associate  
232 Horner Street  
Johnstown, PA 15902  
814-536-1651

A project organizational chart follows this page.



**CJL ENGINEERING**

State of  
West Virginia

James Vizzini, PE  
Partner-in-Charge

Perficio Weiskopf  
Wagstaff & Gotfel

Alan Weiskopf, AIA  
Managing Principal

Joe Filar, AIA  
Associate

Matthew Sotosky, PE  
Managing Partner  
Mechanical

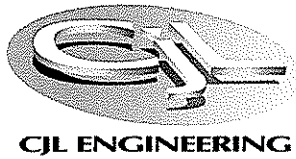
Kent Lewis, PE, LC  
Managing Partner  
Electrical

Glenn Brown  
Associate  
Electrical

Herbert Oldham  
Senior Associate  
Mechanical

Jim Kick  
Designer  
Mechanical

Mark Rosko, PE  
Associate  
Mechanical



**Chilled Water Renovations for Building #9  
Requisition Number: GSD096435  
Response to 4.2.3.b.**

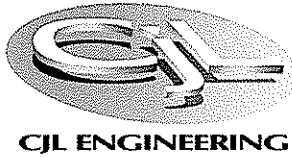
CJL Engineering prides itself in providing all necessary services and personnel/staffing required to meet our current project schedules. We state with certainty (and our references will confirm) that, "*CJL Engineering absolutely meets whatever schedules serves the needs of our clients.*"

A proposed product schedule is hereby listed for review. Final schedule arrangements will be contingent on the Agency's requirements.

<b>Milestone</b>	<b>Due Date</b>
EOI Submission	2/19/2009
Professional Selection	3/19/2009
Design Kick-off	4/1/2009
Survey/Schematic Design	4/29/2009
Schematic Design Review	5/13/2009
Design Development	6/10/2009
Design Development Review	6/24/2009
Construction Document	7/27/2009
Final Review	8/5/2009
Advertise for Bids	8/14/2009 through 8/28/2009
Receive Bids	9/7/2009
Award Construction Contracts	9/17/2009
Begin Construction	10/23/2009
Complete Construction	March, 2010

The above-proposed schedule should serve the Agency's needs quite nicely. If followed, the majority of the construction work can be accomplished in the winter months; the project should not inconvenience the end users of Building #9.





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PITTSBURGH ▼ JOHNSTOWN ▼ YOUNGSTOWN

**Chilled Water Renovations for Building #9  
Requisition Number: GSD096435  
Response to 4.2.4.a.**

The following pages show CJL Engineering's ability to execute projects similar to those described in the Expression of Interest. In addition to a complete representative list of the firm's Central Chilled Water Plants projects, there are also included detailed project sheets, displaying project-specific information and photographs. These sheets have been limited to the ten (10) as stipulated in the RFQ.

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1550 Coraopolis Heights Road, Suite 340 ▼ Moon Township, PA 15108 ▼ P: 412-262-1220 ▼ F: 412-262-2972 ▼ E: [cjlpgh@cjlengineering.com](mailto:cjlpgh@cjlengineering.com)

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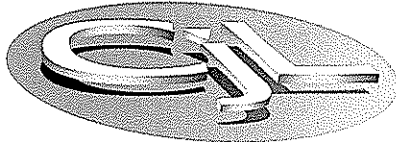
232 Horner Street ▼ Johnstown, PA 15902-1922 ▼ P: 814-536-1651 ▼ F: 814-536-5732 ▼ E: [cjljt@cjlengineering.com](mailto:cjljt@cjlengineering.com)

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1044 N. Meridian Road, Suite B, Youngstown, OH 44509 ▼ P: 330-746-1360 ▼ F: 330-746-7000 ▼ E: [cjlytn@cjlengineering.com](mailto:cjlytn@cjlengineering.com)

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[www.cjlengineering.com](http://www.cjlengineering.com)



**CJL ENGINEERING**

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## ***CENTRAL CHILLED WATER PLANTS***

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**AT&T 'Platinum' Building / 1500 ton Chilled Water Plant, Pittsburgh, PA**

**BJC 'Green' Data Center / 750 ton Chilled Water Plant, St. Louis, MO**

**Benedum Center for the Performing Arts / 550 ton Chilled Water Plant, Pittsburgh, PA**

**Cambria County Central Park Complex / 220 ton Chilled Water Plant, Johnstown, PA**

**Cambria County War Memorial Arena / 600 ton District Cooling Plant, Johnstown, PA**

**Chesapeake City Hall / 1000 ton Chilled Water Plant, Chesapeake, VA**

**Community College of Allegheny County (CCAC) – Student Service Center / 200 ton tie-in to District Energy Chilled Water Loop, Pittsburgh, PA**

**Community College of Allegheny County (CCAC) – Science Building / 250 ton tie-in to District Energy Chilled Water Loop, Pittsburgh, PA**

**Community College of Allegheny County (CCAC) – West Hall / 175 ton tie-in to District Energy Chilled Water Loop, Pittsburgh, PA**

**Dauphin & Shippen Halls / 450 ton Chilled Water Plant, Shippensburg University, Shippensburg, PA**

**Delahunty Middle School / 180 ton Chilled Water Plant, Hermitage, PA**

**Fox Chapel High School / 400 ton Chilled Water Plant, Pittsburgh, PA**

**Gateway Jr./Sr. High School / 800 ton Chilled Water Plant, Monroeville, PA**

**Garrett County Memorial Hospital / 1000 ton Chilled Water Plant, Oakland, MD**

**Hickory High School / 600 ton Chilled Water Plant, Hermitage, PA**

**Homer Center High School / 300 ton Chilled Water Plant, Homer City, PA**

**Jamestown Dual-Rink Ice Arena / 600 ton District Chilled Water Plant, Jamestown, NY**

**Jefferson County-DuBois Area Vocational Technical School / 150 ton Chilled Water Plant, Reynoldsville, PA**

**Mercer County Career Center School / 140 ton Chilled Water Plant, Mercer, PA**

**NASA – IVVS Facility, 450 ton Chilled Water Plant, Fairmont, WV**

**NGA Arnold – Data Center / 960 ton Chilled Water Plant, Arnold, MO**

**Northside Medical Center (Forum Health) / 4000 ton Chilled Water Plant, Youngstown, OH**

**Norwin High School /1000 ton Chilled Water Plant, North Huntingdon, PA**

**Oakmont Country Club / 110 ton Chiller uses on-site natural gas well), Pittsburgh, PA**

**Pittsburgh Zoo and PPG Aquarium – Water’s Edge Polar Bear and Sea Otter Exhibit / 300 ton Chilled Water Plant serves both building and sea water pools (440,000 gal.) cooling needs**

**Punxsutawney Hospital / 600 ton Chilled Water Plant, Punxsutawney, PA**

**Still Hall - Clarion University of Pennsylvania / 200 ton Steam Absorption Chiller, Clarion, PA**

**Socastee High School / 300 ton Chilled Water Plant Upgrade, Socatee, SC**

**Soldiers and Sailors Memorial Hall and Museum / 300 ton Chilled Water Plant, Pittsburgh, PA**

**Trumbull Memorial Hospital / 1,800 ton Chilled Water Plant (Forum Health), Warren, OH**

**University of Pittsburgh / 5,100 ton Upper Campus Chilled Water Plant, Pittsburgh, PA**

**University of Pittsburgh – Chevron Science Center / 2,100 ton tie-in to Lower Campus Chilled Water Loop, Pittsburgh, PA**

**University of Pittsburgh – Bio-Engineering Center / Upgrade of existing 600 ton Chilled Water Plant, Pittsburgh, PA**

**Valley Mall / 2000 ton Chilled Water Plant, Hagerstown, MD**

**Wabash General Hospital / 400 ton Chilled Water Plant, Wabash, IL**

**Westinghouse Building / Central Boiler & 2,200 ton Chilled Water Plant, Pittsburgh, PA**

**West Virginia Capitol Complex - Building #3, Charleston, WV**  
(CJL Engineering has surveyed the Central Chilled Water Plant serving Building #3 to coordinate our renovated building future tie-in.)

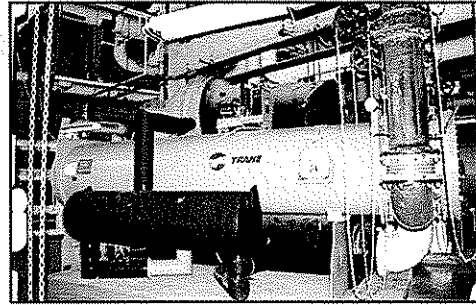
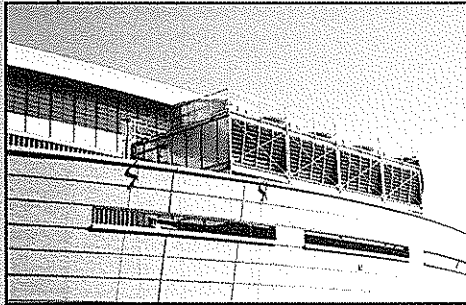
**Youngstown State University / 3,600 ton Chilled Water Plant, Youngstown, OH**

**Youngstown State University / Phase 2 Decoupling of Tertiary Buildings, Youngstown, OH**

**Williamson College of Business – Youngstown State University / tie in to new 3,600 ton Chilled Water Plant, Youngstown, OH**

# Upper Campus Chilled Water Plant & High-Pressure Steam Line

University of Pittsburgh, Pittsburgh, PA



## **The Project: (DGS 1103-38)**

CJL Engineering provided the mechanical and electrical engineering design for the 5,100-ton upper campus chilled water plant for the University of Pittsburgh. The plant was designed to serve six buildings on the upper campus. The massive 7,000 sq. ft. plant is 30 feet high, and houses three (3) 900-ton and two (2) 1200-ton chillers. Five (5) 1,100-ton cooling towers are mounted on the roof.

## **CJL Engineering Design Solutions:**

- A primary, secondary pumping system utilizes a primary chilled water pump for each chiller, and three (3) secondary pumps with variable speed drives. The total capacity of the pumping system is 8,160 gpm designed for a 15 degree F. delta T. Three (3) condenser water pumps with variable speed drives handle all of the condenser water flow.
- Underground 20" chilled water piping, along with a 12" high-pressure steam 6" pump discharge, and 2" high-pressure return, were installed in a common 10' side trench. The steam system consisted of over 1000 ft. of high-pressure piping and six (6) steam vaults (manholes).
- All existing utilities in the path of piping excavation were accurately located horizontally and vertically to aid the contractor and avoid change orders.
- The new 12" high-pressure steam line was extended from existing steam vault at Desoto and O'Hara Streets. Excavation on the project was extensive.
- An 11,000 kW electrical load is provided by two (2) University substations at 4160 volts. Both the normal and back-up feeds have five (5) runs of 8kV, 750 kcmil, MV90 cable.
- The new 5kV metal-clad vacuum switchgear has a main-tie-main, five (5) circuits for chillers, two (2) circuits for the Center, and two (2) circuits for secondary unit substations.

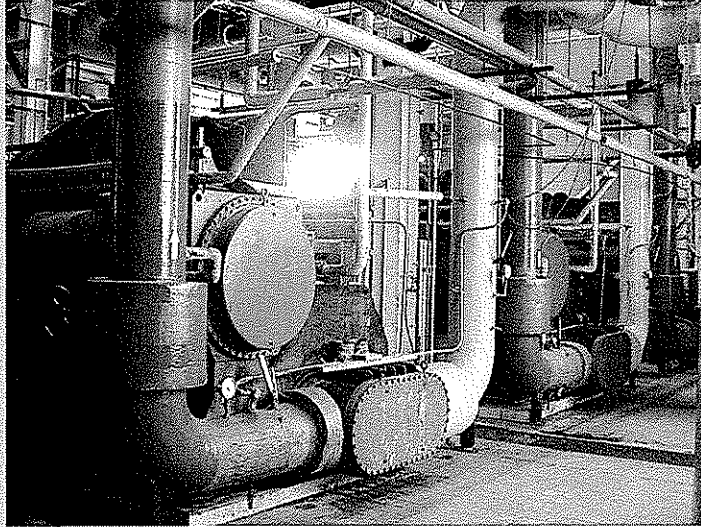
**Project Cost: \$7.1 million – Completed: 2001**

**Owner:** University of Pittsburgh **Contact:** Charles Turbanic, Assistant Vice Chancellor,  
University of Pittsburgh, 3400 Forbes Ave., Pittsburgh, PA 15260 T. (412) 624-9171  
[turbanic@fm.pitt.edu](mailto:turbanic@fm.pitt.edu)



**CJL ENGINEERING**

**Youngstown State University**  
**3600 ton Chilled Water Plant**  
Youngstown, OH



**The Project:**

CJL Engineering worked with Johnson Controls for an upgrade to the existing YSU Chilled Water Campus Plant, as part of a performance contract under Ohio House Bill 7.

The upgraded chiller plant provides chilled water to the entire YSU campus through and underground utility tunnel system. CJL is currently studying the energy savings by installing heat exchangers at each building to tighten-up the secondary pumping control.

**CJL Engineering Design Solutions:**

- Three (3) new 1200 ton centrifugal chillers were installed. The chillers are 4160 voltage.
- Three (3) new cooling towers and condenser water pumps were added.
- New primary and secondary chilled water pumps were also installed.
- An existing 1,800,000 gallon underground chilled water storage tank was repiped and is currently being utilized to reduce the electrical demand during Daylight peak hours. The tank is charged at night when electric utility rates are lower.
- All new Direct Digital Control System to maximize operating efficiency was designed and installed.
- A new Emergency Refrigerant Exhaust System was installed.

**Project Cost: \$4.5 million - Completed: 2008**

**Owner: Youngstown State University**

**Contact: Ralph Morrone, P.E., Facilities Engineering**

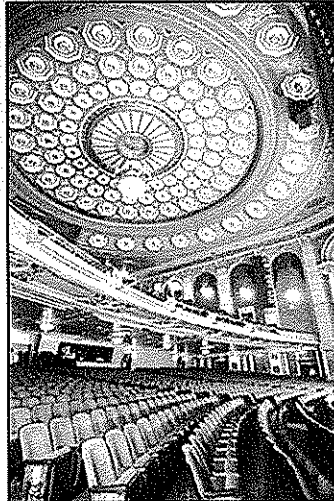
**One University Plaza, Youngstown, OH 44555 Tel. 330) 941-3218**

**[rcmorrone@ysu.edu](mailto:rcmorrone@ysu.edu)**



**CJL ENGINEERING**

# Benedum Center for the Performing Arts New Chilled Water Plant & Electrical Upgrades Pittsburgh, PA



## **The Project:**

Benedum Center for the Performing Arts is the premier multi-purpose venue in Pittsburgh's Cultural District. Built in 1927 as the Stanley Theater, the 2,800-seat hall is home to four of Pittsburgh's opera and dance companies, and hosts a diverse range of touring productions. The need for increased cooling capacity led to the redesign and installation of a new Chilled Water Plant and electrical upgrades.

## **CJL Engineering Design Solutions:**

- New cooling equipment provides reliability, redundancy and a reduction in utility costs. Lower chilled water temperatures improve dehumidification, and provide flexibility for smaller startup and non-event cooling loads.
- New chillers, cooling towers, controls, pumps and associated electrical infrastructure.
- The new plant has two 275-ton centrifugal electric chillers, one 175-ton electrical screw compressor chiller, two-285-ton cooling towers, three VFD pumps, all new piping and chemical feed tanks and 2 refrigeration leak exhaust systems.
- New electrical switchgear capacity was added and brought on line without disrupting operations.
- New risers and distribution panels were routed to the gridiron and penthouse levels.

**Project Cost:** \$2.1 million **Completed:** 2001

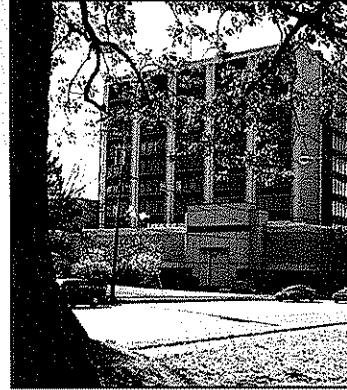
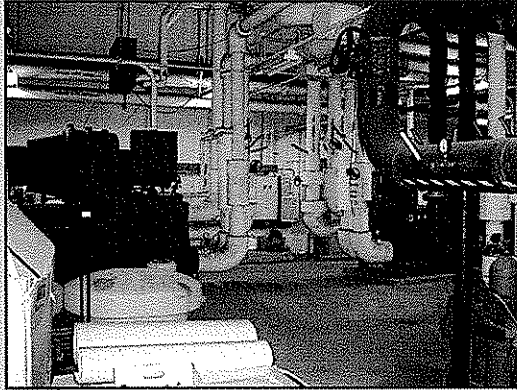
**Owner:** Pittsburgh Cultural Trust **Contact:** Eugene Ciavarra, V.P. Operations -  
Theaters and District Amenities, 719 Liberty Avenue, Pittsburgh, PA 15222

T. (412) 471-6070 [ciavarra@pgharts.org](mailto:ciavarra@pgharts.org)



**CJL ENGINEERING**

# Trumbull Memorial Hospital Upgrade Chilled Water Plant Warren, OH



## **The Project:**

Forum Health offers many centers of excellence that are designed to provide an integrated and "patient-first" approach to care. Since its founding in 1907, Trumbull Memorial Hospital has served Mahoning, Trumbull and Columbiana counties in Northeastern Ohio. Recent renovations, including a newly upgraded 2,250 ton Chilled Water Plant.

## **CJL Engineering Design Solutions:**

- Upgrade Central Chilled Water Plant to 2,250 ton capacity by the addition of three 750 ton chillers. Two chillers were replaced.
- Equipment is located in a 10-story penthouse.
- Replaced and upsized the cooling tower.
- In surgery units require colder temperatures and tight humidity control, so a supplemental chiller was added to reduce water temperatures from 46 F to 38 F. during peak cooling times.
- Assess and inventory existing equipment to verify conditions to assure that the expanded system plant would function properly.
- The inventory led to the preparation of concise drawings and specifications. The resulting flow diagrams will permit future modification by providing an accurate picture of the system.
- Electrical Distribution was upgraded to 4160 V Primary to accommodate the new chiller.

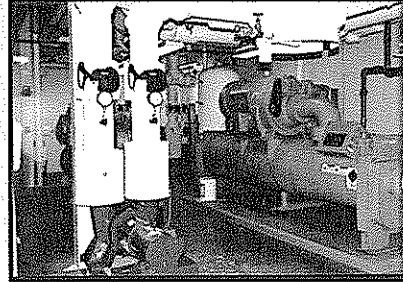
**Project Cost:** \$2.6 million **Completed:** 2006

**Owner:** Forum Health **Contact:** Steve Cockerham, (\*Former Director of Facilities at Forum Health)  
Now - VP Planning, Design and Construction, BJC Healthcare, 15450 S. Outer 40 Drive,  
Suite 270, Chesterfield, MO 63017 T. (314) 953-1902 [sd6664@bjc.org](mailto:sd6664@bjc.org)



**CJL ENGINEERING**

# Punxsutawney Hospital Master Plan & Implementations 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 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

**Owner:** Punxsutawney Hospital **Contact:** Dana Hartle, Director of Support Services  
81 Hillcrest Drive, Punxsutawney, PA T. (814) 938-1888 [bhartle@pah.org](mailto:bhartle@pah.org)

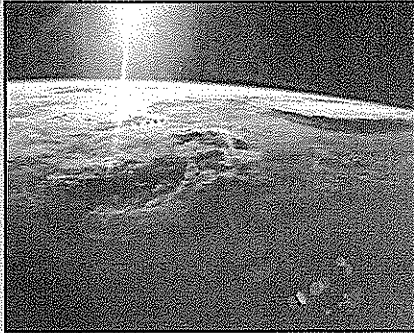


**CJL ENGINEERING**



# NGA Arnold – Data Center

National Geospatial-Intelligence Agency  
Arnold, MO



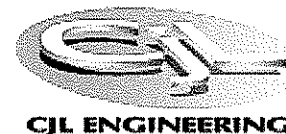
## The Project:

This \$20 million retrofit consists of the conversion of an existing warehouse facility in Arnold, Missouri into a two-level advanced Computer Data Center for the National Geospatial-Intelligence Agency. CJL Engineering provided the Mechanical and Electrical Engineering design for this facility's conversion into a secure geospatial intelligence data center.

## CJL Engineering Design Solutions:

- HVAC Upgrade the existing Chilled Water Plant, comprised of two 320-Ton Centrifugal Chillers to accommodate increased loads. The enhanced HVAC System design includes:
  - 320-Ton Trane Centrifugal Chiller
  - 427 Ton, BAC Cooling Tower.
  - Primary Chilled Water Pump.
  - Secondary Chilled Water Pumps with Dedicated Tap off Chilled Water Supply Header.
  - Condenser Water Sump Tank (10,000 Gallon)
  - Condenser Water Pump
- Verify that all header piping is sufficiently sized to handle increased flow. New duty/standby chilled water pumps for new Data Center to be on variable frequency drive controls. Independent chilled water supply and return piping serves the Data Center HVAC units. Piping to units was installed below raised floor.
- Computer Room Air-Conditioning Units was equipped with cooling, humidification and dehumidification components. No heating capability was required, other than what is used for the dehumidification cycle. The building's Plumbing Systems were modified to accommodate the planned two-story infill of the facility.
- Alterations and additions to the Electrical System of the existing building Power Distribution System involved two large feeders, originating from the main switchboard, will supply power to (a) non-critical computer loads and (b) New 192 KW chiller, its related equipment and the air-conditioning units in the computer rooms.
- Critical power in the computer room was connected to an existing 400 KW UPS System. Branch circuit wiring to the computer equipment will be installed beneath a 14" raised floor. Lighting in the computer workspace is a suspended indirect type with one T-5 lamp each. All indirect lighting uses dimmer switch controls.

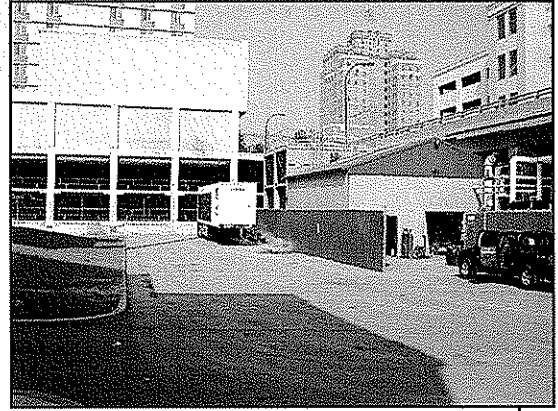
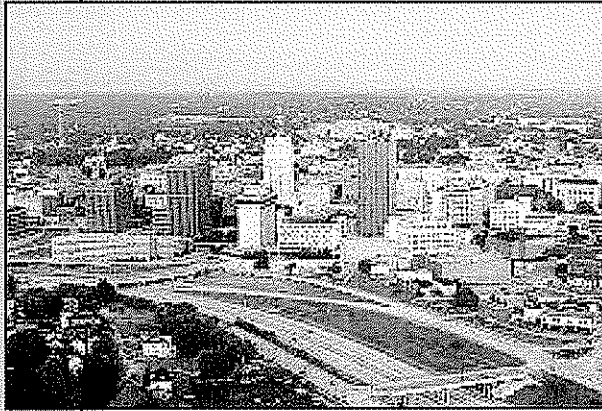
*Project Cost: \$20 million Completed: 2006*  
*Owner: National Geospatial-Intelligence Agency*  
*3838 Vogel Rd., Arnold, MO 63010 (314) 263-4210*



# Akron Thermal - Downtown District Chiller

Akron Thermal LP

Akron, OH

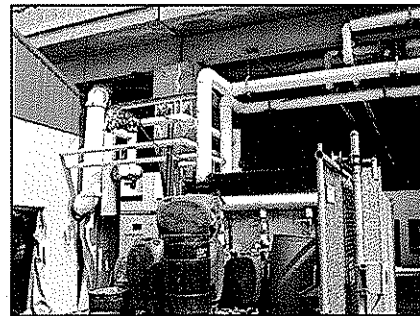


## The Project:

CJL Engineering is providing Mechanical and Electrical Engineering services to Akron Thermal, the district energy provider for the City of Akron, Ohio. Located in center-city Akron, a new 1,000-Ton steam absorption chiller, and a 1,000-Ton cooling tower were designed to accommodate district needs. Akron Thermal Cooling, LLC provides chilled water cooling to a section of Downtown Akron that includes a 2 million sq. ft. office building, a light industrial park, the Akron Aeros Baseball Stadium, and the Akron Civic Theatre. The plant is operated under an agreement with Akron Thermal, LP.

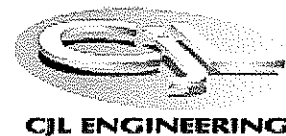
## CJL Engineering Design Solutions:

- The new 1,000-Ton chiller will be piped in parallel to the existing plant's 1,000-Ton chiller.
- Increased electrical capacity was designed to support the new chiller pumps and cooling tower fan motors.
- Structural Engineering included the design of new concrete floor and building shell expansion to support the new chiller, associated pumps and controls.

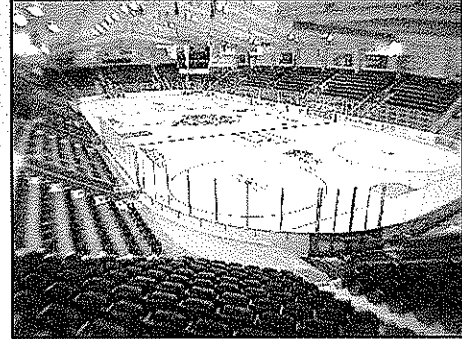


*Project Cost: \$1.5 million Completed: 2006*

*Owner: Akron Thermal LP Contact: Jeff Bees, Corporate CEO  
236 North Champion St, Youngstown, OH 44503 T. (330) 747-3800*



# Cambria County War Memorial Arena Renovation & Central Chilled Water Plant Johnstown, PA

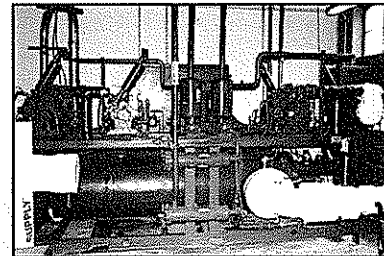


## The Project:

The Cambria County War Memorial Arena is a multi-purpose sports and exhibition facility. In a recent expansion/renovation, the arena gained Central Air-Conditioning, new seating, improved public access, and ADA Compliance. While the Ice Rink's in-slab piping remained intact, the system was totally upgraded.

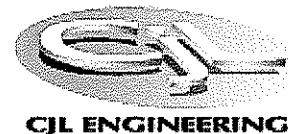
## CJL Engineering Design Solutions:

- New Chilled Water Plant has two (2) 300-ton chillers, and also serves the adjacent Frank. J. Pasquerilla Conference Center.
- New hot water Heating System designed.
- Central station air-handling units and a 4-pipe Heating and Cooling System serve the HVAC needs of the building.
- Desiccant dehumidification air-handling units provide humidity control for ice rink.
- Rink Refrigeration: low temperature ice building chiller; evaporative condenser, Ethylene Glycol pumps for rink piping; and redundant compressor/pumping arrangement.
- Plumbing System modified and extended.
- New Storm and Sanitary Drainage Systems.
- Distribution System with domestic cold, hot and hot water returns, valves and equipment.
- Specialized Air Exhaust System for indoor truck & auto events.

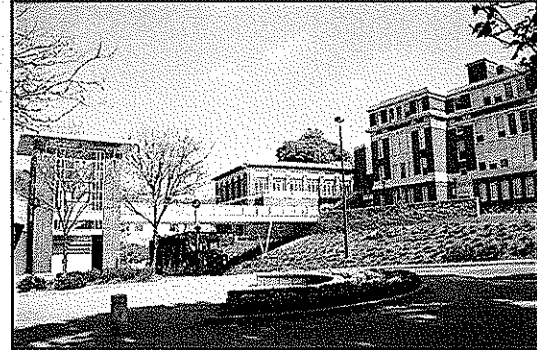


**Project Cost:** \$8 million **Completed:** 2004

**Owner:** County of Cambria **Contact:** Edward Cernic, Jr., Controller  
South Center Street, Ebensburg, PA 15931 T. (814) 472-1620 [ecernic@co.cambria.pa.us](mailto:ecernic@co.cambria.pa.us)



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



**The Project:**

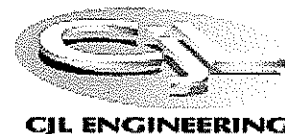
West Virginia University transformed its historic 54,000 sq. ft. Oglebay Hall into a state-of-the-art forensics laboratory and classroom building. Dating from 1916, the new 74,000 sq. ft. building includes DNA and molecular biology laboratories, electron microscopy, bone analysis, gas chromatograph, 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 a LEED® Silver certification level and is considering the application of the Labs-21 LEED®-based green laboratory guidelines.

**CJL Engineering Design Solutions:**

- 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.
- Bridge tie in to new campus wide chilled water distribution system.
- Routing of campus loop piping thru the basement and crawlspace.
- Building chilled water pumps equipped with variable speed drives for energy savings.
- Equipment selected with 15 degree chilled water temperature rise to increase central plant efficiency and reduce building pipe sizes.

**Project Cost:** \$20 million **Completion:** 2008

**Owner:** West Virginia University, 3040 University Avenue  
Morgantown, WV 26506 T. (304) 293-7202



# Oglebay Hall & Ming Hsieh Hall, West Virginia University

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

## Oglebay Hall Size

55,000 s.f. renovation

## Ming Hsieh Hall Size

20,000 new building

## Construction Cost

\$ 20,000,000 combined

## Firm Responsibility

Programming

Architectural Design

Contract Documents

Contract Administration

Completion Date 2008

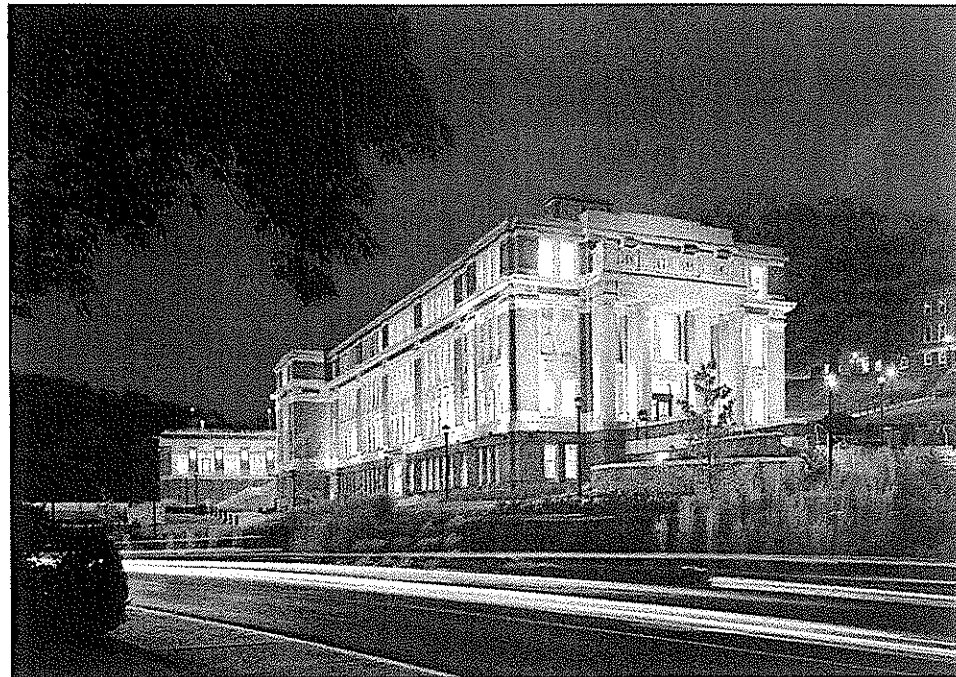
## Client

West Virginia University

## Certifications

National Register Listed

LEED Certification Pending



## Campus Paths and Places

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

## Vehicular Access, Conflict and Parking

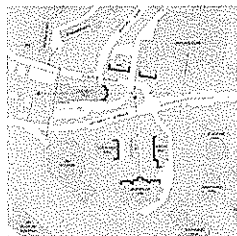
By relocating surface parking to the roof of Ming Hsieh Hall and rerouting the service entrance, fragmented pedestrian paths were stitched together and impervious surface area was reduced despite the construction of a new building. A pedestrian bridge crosses University Avenue alleviating the conflict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

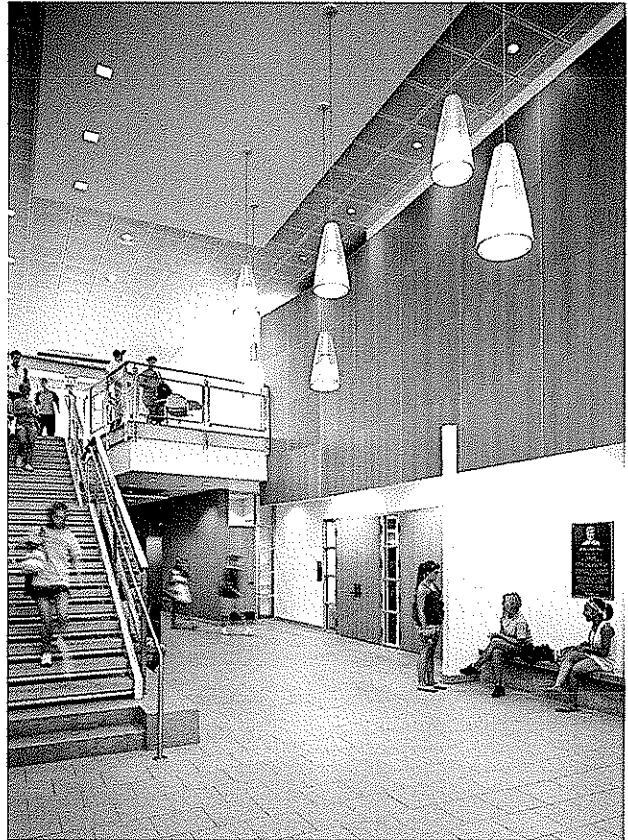
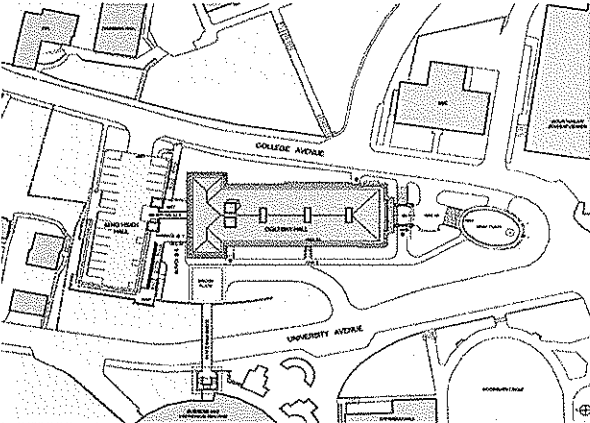
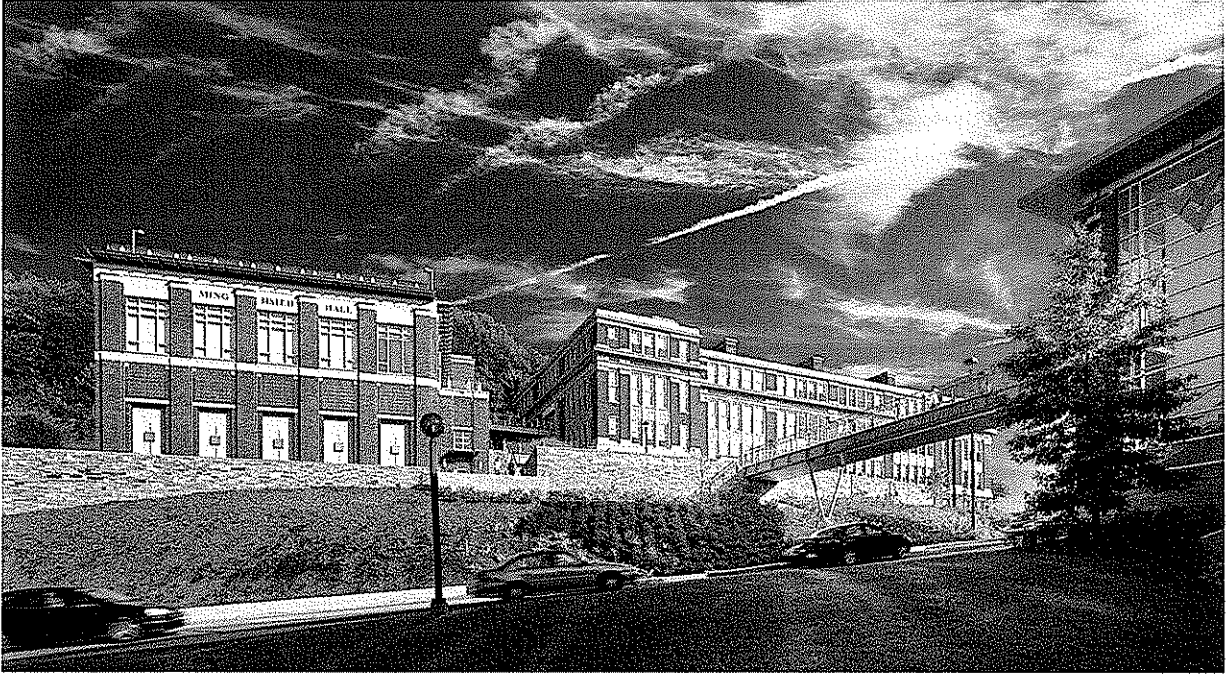
## Oglebay Hall - Historic Rehabilitation

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

## Ming Hsieh Hall - Expanded Classroom Capacity

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

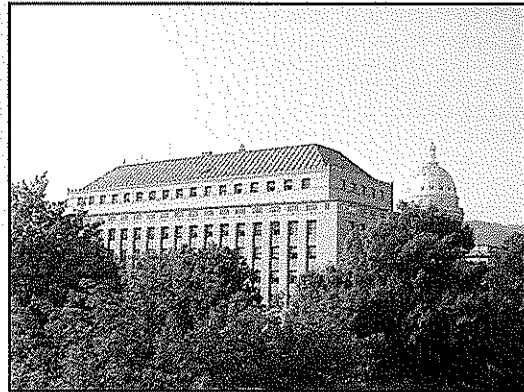
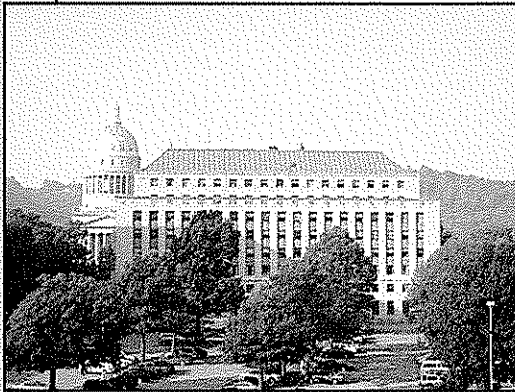




# West Virginia Capitol Complex

## State Office Building #3

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. When the architectural and engineering retrofit is completed, State Office Building #3 will achieve LEED® Certification.

### **CJL Engineering Design Solutions:**

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

*Project Cost: \$24 million Completion: 25%*

*Owner: State of West Virginia Contact: Scott Mason, P.E.*

*1900 Kanawha Blvd., East, Charleston, WV 25305 T. (304) 558-3490*



**CJL ENGINEERING**

## West Virginia State Capitol Building #3

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

MEP Subconsultant **CJL Engineering**

**Size** 165,000 s.f.

**Construction Cost**

\$ 24,000,000

**Firm Responsibility**

Programming

Architectural Design

Contract Documents

Contract Administration

**Completion Date**

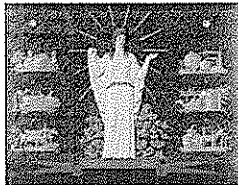
Projected 2010

**Client Contact**

David Oliverio

Dept of General Services

State of West Virginia



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

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

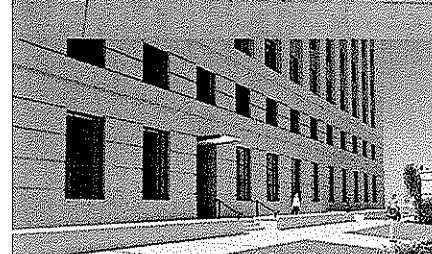
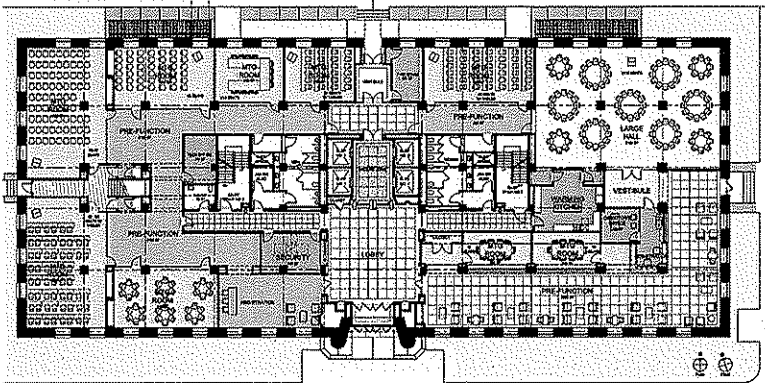
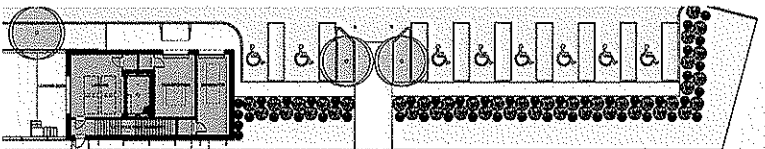
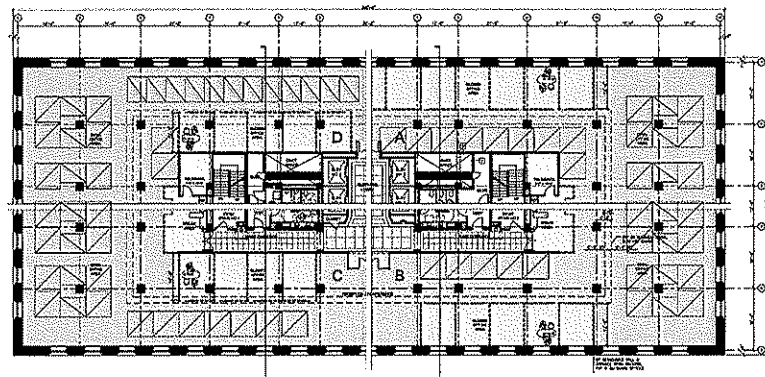
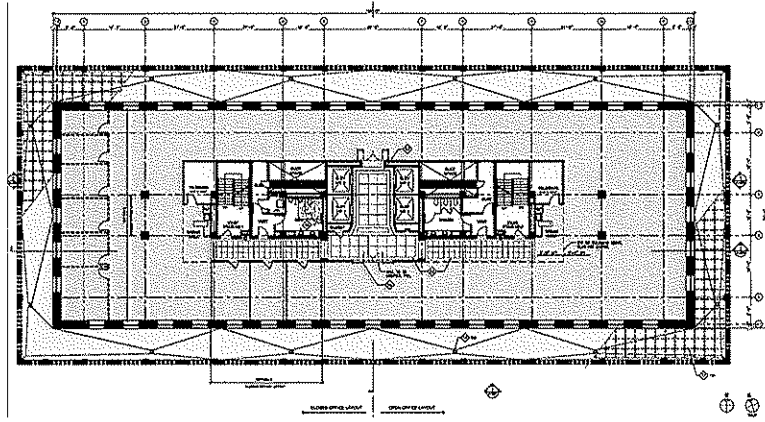
The design challenge is to renovate the building so that it can be an office building for the 21st century. This requires extensive demolition on all levels. The building will be taken back to its structural shell and core, while maintaining and restoring the historically important features and spaces.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

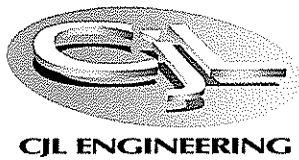
The planning concept for floors 2 through 8 will provide maximum open office spaces that permit maximum flexibility for the varied departmental needs. Systems furniture will be used to create the varied working group relationships required.

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

The building will be LEED certified.







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PITTSBURGH ▼ JOHNSTOWN ▼ YOUNGSTOWN

**Chilled Water Renovations for Building #9  
Requisition Number: GSD096435  
Response to 4.2.4.b.**

The following page lists the five references for whom CJL Engineering has provided work for similar projects. Included are the contact person, addresses, telephone numbers and a short description of the applicable project.

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1550 Coraopolis Heights Road, Suite 340 ▼ Moon Township, PA 15108 ▼ P: 412-262-1220 ▼ F: 412-262-2972 ▼ E: [cjlpgh@cjlengineering.com](mailto:cjlpgh@cjlengineering.com)

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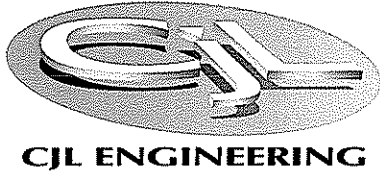
232 Horner Street ▼ Johnstown, PA 15902-1922 ▼ P: 814-536-1651 ▼ F: 814-536-5732 ▼ E: [cjljt@cjlengineering.com](mailto:cjljt@cjlengineering.com)

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1044 N. Meridian Road, Suite B, Youngstown, OH 44509 ▼ P: 330-746-1360 ▼ F: 330-746-7000 ▼ E: [cjlytn@cjlengineering.com](mailto:cjlytn@cjlengineering.com)

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[www.cjlengineering.com](http://www.cjlengineering.com)



## Project References

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CJL ENGINEERING maintains an excellent track record on projects. We invite you to contact the clients listed below for whom we performed professional Chilled Water Plant services. From areas ranging from cost controls, quality of work and compliance with performance schedules, to our willingness to do whatever it takes to get the job done in a timely, cost-effective and technically accurate manner.

Charles Turbanic  
Assistant Vice Chancellor  
**UNIVERSITY OF PITTSBURGH**  
3400 Forbes Avenue  
Pittsburgh, PA 15260  
(412) 624-9171  
[turbanic@fm.pitt.edu](mailto:turbanic@fm.pitt.edu)

< 5,100-ton Upper Campus Chilled Water Plant >

Ralph Morrone, PE  
Facilities Engineer  
**YOUNGSTOWN STATE UNIVERSITY**  
One University Plaza  
Youngstown, OH 44555  
(330) 941-3218  
[rcmorrone@ysu.edu](mailto:rcmorrone@ysu.edu)

<3,600 ton Central Campus Chilled Water Plant

Eugene Ciavarra  
V.P. Operations - Theaters and District Amenities  
**PITTSBURGH CULTURAL TRUST**  
719 Liberty Avenue  
Pittsburgh, PA 15222  
(412) 471-6070  
[ciavarra@pgharts.org](mailto:ciavarra@pgharts.org)

<500-ton Chilled Water Plant >  
Benedum Theatre

Steve Cockerham  
VP Planning, Design & Construction  
(\* Former Director of Facilities at FORUM HEALTH  
(Northside Medical Center, Trumbull Memorial  
Hospital and Hillside Hospital)  
**BJC Healthcare – Planning, Design and Construction**  
15450 S. Outer 40 Drive, Suite 270,  
Chesterfield, MO 63017  
(314) 953-1902  
[sd6664@bjc.org](mailto:sd6664@bjc.org)

<1,800-ton Chilled Water Plant >  
Trumbull Memorial Hospital

Dana Hartle  
Director of Support Services  
**PUNXSUTAWNEY HOSPITAL**  
81 Hillcrest Drive, Punsxutawney, PA  
(814) 938-1888  
[bhartle@pah.org](mailto:bhartle@pah.org)

< 600-ton Central Chilled Water Plant >