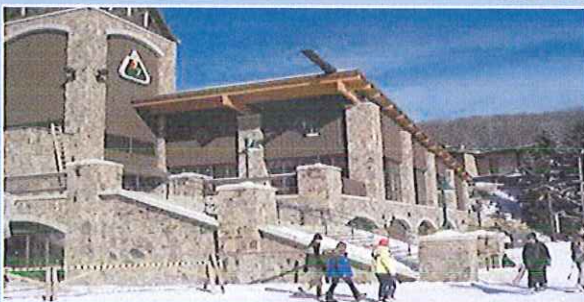


Proposal for Architectural and Engineering Services
PIPESTEM RESORT STATE PARK - McKEEVER LODGE HEATING AND COOLING PIPING REPLACEMENT

EOI No. : DNR213077

The West Virginia Division of Natural Resources, Parks & Recreation

April 9, 2013



04/08/13 02:19:11 PM
West Virginia Purchasing Division

TOWER
ENGINEERING

115 Evergreen Heights Drive, Suite 400, Pittsburgh, Pennsylvania 15229 • 412-931-8888 • Fax 412 939-2525 • www.estower.com

TABLE OF CONTENTS

Cover Letter

Required Executed Forms

Solicitation EOI Form

Certification and Signature Page

Addendum Acknowledgement Form

Purchasing Affidavit

Tower Engineering.....Section 1

References/Project Experience.....Section 2

Project Team.....Section 3



TOWER ENGINEERING

115 Evergreen Heights Drive – Suite 400 – Pittsburgh, Pennsylvania 15229
Tel: 412.931.8888 – Fax: 412.939.2525 – Email: tower@estower.com

April 9, 2013

Mr. Guy Nisbet
Division of Natural Resources
Parks & Recreation Section
324 4th Avenue
South Charleston, WV 25303-1228

RE: EOI DNR213077
Proposal for Architectural and Engineering Services
Pipestem Resort State Park
McKeever Lodge Heating and Cooling Piping Replacement

Dear Mr. Nisbet,

Tower Engineering is pleased to submit this expression of interest to provide professional engineering services for the McKeever Lodge at the Pipestem Resort State Park. Given our firm's past experience with the design of HVAC, electrical, plumbing, fire protection and technology systems for state parks, we are particularly interested in continuing our relationship with the Division of Natural Resources.

We feel that Tower Engineering is uniquely qualified to provide services to the Division of Natural Resources because:

Quality Service - We work with each client's operating personnel and the contractor to ensure that systems are installed in accordance with plans and specifications; that they operate properly in relationship with their subsystems; that they operate through a wide range of operating conditions as well as design conditions; and, that the operating and maintenance personnel have been properly trained.

Past Performance & Experience - Tower Engineering has experience providing engineering design and commissioning services on numerous similar projects. Our extensive design experience insures that we will be familiar with all aspects of each project's mechanical and electrical design. Our firm is currently providing services for the Cacapon Resort Lodge Expansion in Berkeley Springs, West Virginia, and for the Canaan Valley Resort Renovation and Addition in Davis, West Virginia, both of which teaming with Paradigm Architecture. Additional examples are included in this package.

Personal Approach to Project Design – As a medium-sized engineering firm, we feel that this provides a number of significant advantages. Unlike a small firm, our office can easily accommodate the rigorous design schedules of a major project without significant disruption. Unlike a large firm, Tower Engineering stresses active principal involvement on all projects and does not require the involvement of "middle-level" employees whose responsibility is to convey information between the client (Pipestem Resort State Park) and design engineers. Our principals are not devoted primarily to marketing activities, allowing ALL projects to include significant design participation of at least one of our four principals.

Mr. Guy Nisbet
Division of Natural Resources
April 9, 2013
Page 2

Familiarity with West Virginia - Over the past 20 years, we have provided mechanical, electrical, plumbing, and fire protection engineering services on a vast number of buildings (both renovation projects and new) throughout the state of West Virginia. We are very familiar with the code issues that apply to construction projects in West Virginia and have excellent working relationships with major mechanical and electrical contractors who routinely bid projects located in the state.

We have reviewed the Expression of Interest, and we feel we are uniquely qualified to provide services to the McKeever Lodge because of our Proven Quality Service, Successful Past Performance and Experience, Proximity to and Familiarity with the Pipestem Resort State Park, and its facilities which we have discussed in detail in the body of our proposal.

We trust that following your review of our qualifications, you will agree that Tower Engineering is a qualified candidate to serve as the engineer for any project that may arise from this expression of interest. We look forward to having a relationship with the Division of Natural Resources, and thank you for your consideration.

Very truly yours,
TOWER ENGINEERING



James N. Kosinski, PE
Principal



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

Solicitation

NUMBER
DNR213077

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
GUY NISBET 304-558-8802

RFQ COPY

TYPE NAME/ADDRESS HERE

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

DIVISION OF NATURAL RESOURCES
PARKS & RECREATION SECTION

324 4TH AVENUE
SOUTH CHARLESTON, WV
25303-1228 304-558-3397

DATE PRINTED
02/22/2013

BID OPENING DATE:

04/09/2013

BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	QAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-29		
MCKEEVER LODGE HVAC PIPING						
EXPRESSION OF INTEREST (EOI)						
THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES, PARKS AND RECREATION DIVISION, IS SOLICITING EXPRESSION OF INTEREST FOR THE PROFESSIONAL ENGINEERING AND INCIDENTAL ARCHITECTURAL SERVICES FOR THE DESIGN AND CONSTRUCTION OF REPLACEMENT HEATING AND COOLING FLUID PIPING AND RELATED MECHANICAL AND OTHER IMPROVEMENTS AT THE MC KEEVER LODGE LOCATED AT PIPESTEM RESORT STATE PARK, PER THE FOLLOWING BID REQUIREMENTS AND THE ATTACHED SPECIFICATIONS.						
***** THIS IS THE END OF RFQ DNR213077 ***** TOTAL:						

SIGNATURE

[Signature]

TELEPHONE

412-931-8888

DATE

April 1, 2013

TITLE Principal

FEIN

25-1258883

ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION INSERT NAME AND ADDRESS IN SPACE ABOVE LABELLED 'VENDOR'



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

Solicitation

NUMBER

DNR213077

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

GUY NISBET

304-558-8802

RFQ COPY

TYPE NAME/ADDRESS HERE

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

DIVISION OF NATURAL RESOURCES
PARKS & RECREATION SECTION

324 4TH AVENUE
SOUTH CHARLESTON, WV
25303-1228 304-558-3397

DATE PRINTED

03/19/2013

BID OPENING DATE:

04/09/2013

BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO.01						
ADDENDUM FOR THE "EOI" ENGINEERING PROJECT FOR THE WVDNR LOCATED AT THE MCKEEVER LODGE, PIPESTEM RESORT STATE PARK, ISSUED TO ADDRESS THE QUESTIONS AND PUBLISH THE RESPONSES TO THE VENDOR COMMUNITY, AND TO ADD THE MODIFIED HIPAA BUSINESS ASSOCIATE #38 OF THE TERMS AND CONDITIONS OF THE ORIGINAL SOLICITATION.						
HIPAA BUSINESS ASSOCIATE ADDENDUM: THE WEST VIRGINIA STATE GOVERNMENT HIPAA BUSINESS ASSOCIATE ADDENDUM (BAA), APPROVED BY THE ATTORNEY GENERAL, IS AVAILABLE ONLINE AT: HTTP://WWW.STATE.WV.US/ADMIN/PURCHASE/VRC/HIPAA.HTML AND IS HEREBY MADE PART OF THE AGREEMENT PROVIDED THAT THE AGENCY MEETS THE DEFINITION OF A COVERED ENTITY (45 CFR 160.103) AND WILL BE DISCLOSING PROTECTED HEALTH INFORMATION (45 CFR 160.103) TO THE VENDOR. ADDITIONALLY, THE HIPAA PRIVACY, SECURITY, ENFORCEMENT AND BREACH NOTIFICATION FINAL OMNIBUS RULE WAS PUBLISHED ON JANUARY 25, 2013. IT MAY BE VIEWED ONLINE AT: HTTP://WWW.GPO.GOV/FDSYS/PKG/FR-2013-01-25/PDF/2013-01073.PDF ANY ORGANIZATION, THAT QUALIFIES AS THE AGENCY'S BUSINESS ASSOCIATE, IS EXPECTED TO BE IN COMPLIANCE WITH THIS FINAL RULE. FOR THOSE BUSINESS ASSOCIATES ENTERING INTO CONTRACTS WITH A HIPAA COVERED STATE AGENCY BETWEEN JANUARY 25, 2013 AND THE RELEASE OF THE 2013 WV STATE AGENCY BUSINESS ASSOCIATE AGREEMENT, OR SEPTEMBER 23, 2013 (WHICHEVER IS EARLIER), BE ADVISED THAT YOU WILL BE REQUIRED TO COMPLY WITH THE 2013 WV STATE AGENCY BUSINESS ASSOCIATE AGREEMENT. FOR THOSE						

SIGNATURE

TELEPHONE

412-931-8888

DATE

April 1, 2013

TITLE
Principal

FEIN

25-1258883

ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION, 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

Solicitation

NUMBER

DNR213077

PAGE

2

ADDRESS CORRESPONDENCE TO ATTENTION OF:

GUY NISBET
304-558-8802

RFQ COPY

TYPE NAME/ADDRESS HERE

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

DIVISION OF NATURAL RESOURCES
PARKS & RECREATION SECTION

324 4TH AVENUE
SOUTH CHARLESTON, WV
25303-1228 304-558-3397

DATE PRINTED

03/19/2013

BID OPENING DATE:

04/09/2013

BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-29		
BUSINESS ASSOCIATES WITH CONTRACTS WITH A HIPAA COVERED STATE AGENCY EXECUTED PRIOR TO JANUARY 25, 2013, BE ADVISED THAT UPON RENEWAL OR MODIFICATION, YOU WILL BE REQUIRED TO COMPLY WITH THE 2013 WV STATE AGENCY BUSINESS ASSOCIATE AGREEMENT NO LATER THAN SEPTEMBER 22, 2014.						
NO OTHER CHANGES.						
MCKEEVER LODGE HVAC PIPING						
***** THIS IS THE END OF RFQ DNR213077 ***** TOTAL:						

SIGNATURE

TELEPHONE
412-931-8888

DATE
April 1, 2013

TITLE
Principal

FEIN
25-1258883

ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE Labeled 'VENDOR'

CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

Tower Engineering

(Company)


(Authorized Signature)

James N. Kosinski, Principal

(Representative Name, Title)

(412) 931-8888

(Phone Number)

(412) 939-2525

(Fax Number)

April 1, 2013

(Date)

ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.: DNR213077

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

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

Addendum Numbers Received:

(Check the box next to each addendum received)

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

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

Tower Engineering

Company



Authorized Signature

April 1, 2013

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

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

DEFINITIONS:

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

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Tower Engineering

Authorized Signature: *Jan M. Kovach*, Date: April 5, 2013

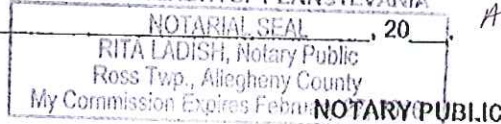
State of Pennsylvania

County of Allegheny, to-wit:

Taken, subscribed, and sworn to before me this 5 day of APR, 2013

My Commission expires COMMONWEALTH OF PENNSYLVANIA

AFFIX SEAL HERE



APPEARED WITH DRIVER'S LICENSE

Rita Ladish

SECTION 1 TOWER ENGINEERING

*AT TOWER ENGINEERING, OUR GOAL IS NOT TO JUST MEET OUR CLIENTS' NEEDS....
BUT TO EXCEED THEIR EXPECTATIONS.*



Tower Engineering has been providing innovative mechanical and electrical engineering solutions and unparalleled client service since 1931. Primary markets of the firm include educational, health care, environments for the aging, and commercial renovations and new construction.

Tower Engineering's highly-trained staff of project managers, designers, and technical support personnel is capable of providing consulting services for every type of project - from a small, single-family residence to a high tech research facility incorporating redundant mechanical and electrical systems, DDC energy management and thermal storage.



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



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

SPECIFIC ENGINEERING SERVICES

HVAC

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

ELECTRICAL

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

TELECOMMUNICATIONS

- Voice communication systems
- Data network systems

PLUMBING

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

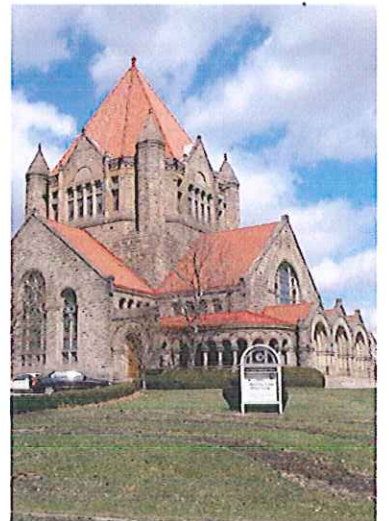
FIRE PROTECTION

- Standpipe and sprinkler systems
- Fire protection systems



DESIGN EXPERIENCE

- Agricultural & Science Buildings
- Airport Terminals & Hangers
- Athletic Facilities & Stadiums
- Auditoriums & Theaters
- Call Centers
- Classrooms
- Clean Rooms & Special Environments
- DataCenters
- Dining Halls
- Dormitory Buildings
- Environments for the Aging
- High-Rise & Low-Rise Office Buildings
- Historic Preservation & Adaptive Reuse
- Hotels/Motels
- Judicial & Courtroom Facilities
- Manufacturing & Industrial
- Movie Theaters
- Municipal Complexes
- Museums, Galleries & Libraries
- Nuclear Facilities
- Outpatient & Hospital Facilities
- Parking Garages
- Postal Facilities
- Prisons & Correctional Institutions
- Public Safety Buildings
- Recreational Facilities
- Religious Facilities
- Research/Laboratories
- Residential & Multi-Unit Housing
- Retail & Shopping Centers
- Schools
- Student Unions
- TV/Radio Stations
- Vehicle Maintenance Facilities
- Warehouses & Depots



Tower Engineering maintains full CAD capabilities utilizing AutoCAD Release 2011, which is compatible with most micro and mini based computer systems. Our AutoCAD software has been modified in-house to further enhance productivity per discipline. Firm-wide CAD standards are also in place to ensure uniformity.

LEED RATED DESIGN

Working together with our clients, Tower Engineering takes great pride in implementing environmentally conscious solutions to building issues. To sustain our environment, we design building systems that use material, energy and water resources efficiently, minimize site impacts and address health issues relating to the indoor environment.

Over the last decade, various groups have worked to develop strategies to promote and facilitate the design of sustainable, high performance buildings. One such organization, The **U.S. Green Building Council**, has created a nationally recognized certification process for evaluating sustainable and high performance buildings, a program called "**Leadership in Energy and Environmental Design**," commonly known by its acronym "**LEED**". In addition to being a member of the U.S. Green Building Council (USGBC), Tower Engineering's staff includes LEED accredited professionals.

The LEED certification process rates the levels of sustainability achieved in a building:

LEED Certified, LEED Silver, LEED Gold, and the highest rating, LEED platinum. Awards are based upon achieving "sustainability points" in the areas of Site, Water, Energy & Atmosphere, Materials and Resources, Indoor Environmental Quality, and Innovation & Design Process.



Our LEED Project Experience Includes:

Felician Sisters Motherhouse, Coraopolis, PA (LEED Gold)

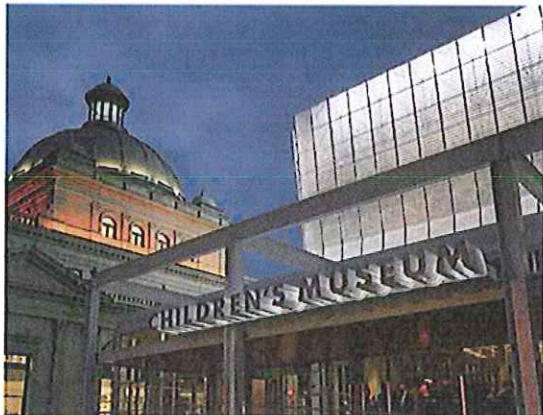
- Super-high efficiency modular boilers to maintain 60 degrees F low-end water temperature.
- Carefully sized individual heat pumps to provide adequate compressor runtimes to ensure summer dehumidification and cooling without short cycling.
- Specification of premium efficient motors for pumps and larger RTU fans.
- Specification of Ventilation Heat Pump Rooftop Units with factory-installed energy recovery sections.
- Utilization of carbon dioxide sensors to reduce outside air quantities in multi-use spaces when not fully occupied.
- Specification of fully automated temperature controls system to provide computerized monitoring and control of mechanical equipment for maximum energy savings and systems optimization.
- Engineered lighting levels to exceed ASHRAE 90.1-1999 using the most efficient lamp and fixture combinations.



Regional Learning Alliance (LEED Silver)

Tower Engineering provided mechanical and electrical consulting engineering services for the Regional Learning Alliance, an innovative educational and workforce development facility just north of Pittsburgh. This \$18 million, "educational mall" is a highly-adaptive, full-service training facility, combining 12 institutes of higher learning under one roof. In addition to high-tech classrooms, the facility houses specialty-manufacturing training centers, flexible meeting rooms to accommodate groups of up to 400, and a tiered seminar room with wireless, touch-panel audio-visual controls. The facility also contains a cafeteria, computer labs, wireless Internet and a workout center that offers wellness planning.

LEED RATED DESIGN CONTINUED



Pittsburgh Children's Museum (LEED Silver)

Tower Engineering recently provided mechanical and electrical engineering services for the 80,000 square foot renovation/expansion of the Children's Museum of Pittsburgh. This project included the construction of a facility to link a 1897 Post Office building with a 1939 Art Deco Planetarium.

It was the goal of the Museum, as well as the design team to make this facility the first LEED Silver children's museum in the country, along with the priority of preserving two important historic buildings.

Green features incorporated into the design of this project include:

- Occupancy light sensors
- Dual Flush Toilets
- "Fuzzy Logic" controlled low flow urinals
- Motion sensor faucets
- Heat recovery wheels
- Heat exchangers
- 3 Kwh photovoltaic system
- Carbon dioxide sensors
- Two week fresh air flush out prior to occupancy
- Humidity control
- DDCcontrols

ADDITIONAL LEED PROJECT EXPERIENCE INCLUDES:

- | | |
|--|--|
| ■ Three Rivers Rowing Association Boat Storage & Maintenance Building (LEED Certified) | ■ Berkeley County Board of Education New Spring Mills Primary School (LEED Silver) |
| ■ Carnegie Mellon University Henderson House (LEED Silver) | ■ Canaan Valley Institute New Headquarters/ Education Building (LEED Certified) |
| ■ Carnegie Mellon University Posner Conference Center Rare Books Room (LEED Certified) | ■ Department of Energy Morgantown Record Storage (LEED Gold) |

PROJECTS DESIGNED IN ACCORDANCE WITH LEED RATING (DID NOT PURSUE LEED CERTIFICATION) :

- | | |
|---|---|
| ■ Millcreek School District J.S. Wilson Middle | ■ Pine Township Recreation Center |
| ■ Corry School District New Elementary School | ■ Pittsburgh Children's Home |
| ■ Holy Sepulcher Parish New Church | ■ Sisters of St. Joseph New Office Building |
| ■ National Guard Stryker Center | ■ Southwest Butler County YMCA (Cranberry) |
| ■ North Hills McIntyre & Highcliff Elementary Schools | ■ Upper St. Clair Community Center |
| ■ Pine Richland New Upper Elementary School | ■ Watson Institute, Craig Academy |

SUSTAINABLE BUILDING DESIGN

U.S. BUILDINGS USE ABOUT 1/3 OF ALL U.S. ENERGY FOR HEATING, COOLING, LIGHTING AN OPERATION. IN ADDITION THEY PRODUCE MORE THAN 35% OF ALL GREENHOUSE GASES.

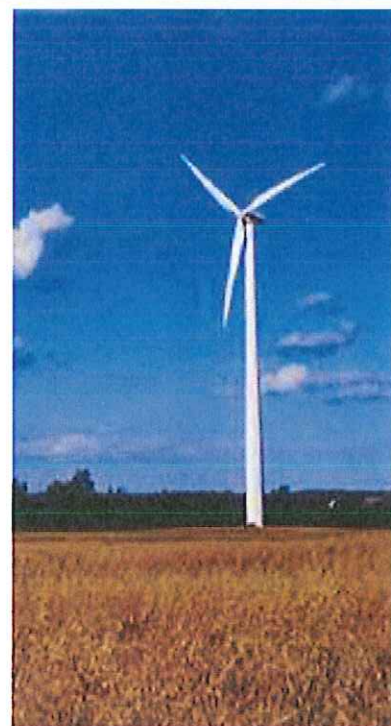
A sustainable building, also referred to as a green building, is a structure that is designed, built, renovated, operated, or reused in an ecological and resource- efficient manner. Green buildings are designed to meet certain objectives such as protecting occupant health; improving employee productivity; using energy, water, and other resources more efficiently; and reducing the overall impact to the environment.

A sustainable building may cost more up front, but saves through lower operating costs over the life of the building. The sustainable building approach applies a project life cycle cost analysis for determining the appropriate up-front expenditure. This method calculates costs over the useful life of the asset.

Some benefits of sustainable design, however, are not easily measured. Improved occupant health, comfort, productivity, reduced pollution and landfill waste are just a few of the hidden benefits of sustainable design.

Even with a tight budget, many green building measures can be incorporated with minimal or zero up front costs and they can yield enormous savings.

AT TOWER ENGINEERING WE BELIEVE IT IS OUR RESPONSIBILITY TO OFFER ARCHITECTS AND OWNERS SUSTAINABLE DESIGN ALTERNATIVES IN ADDITION TO CONVENTIONAL CHOICES, AND TO HELP OUR CLIENTS MAKE THE MOST INFORMED DECISIONS.



ENGINEERING EXPERTISE

Our engineers carefully consider preservation of site features, indoor air quality, natural lighting, energy efficiency and strategies to provide the best quality systems within limited budgets. Focusing on whole systems, not isolated components, our engineers determine the most efficient mechanical and electrical equipment properly sized for building needs. We have been involved with the design of numerous buildings which have implemented Green Building/ Sustainable Design features. Features considered and/or utilized include:

Engineering Services

- HVAC Energy Analysis
- Mechanical and Electrical Systems Monitoring
- Building Commissioning

Equipment

- Direct-Fired Double-Effect Absorption Chiller/Heater
- Desiccant Dehumidification Units
- Heat Recovery Wheel
- Geothermal Heat Pumps
- Underfloor Air Distribution Systems
- Building Automation Systems

GREEN BUILDING DESIGN STRATEGIES

- Install high-efficiency heating and cooling equipment. Well-designed systems including high-efficiency furnaces, boilers, and air conditioners; variable speed pumping; and premium motors not only save the building owners money, but also produce less pollution during operation. Install equipment with minimal risk of combustion gas spillage, such as sealed combustion appliances.
- Install high-efficiency lighting systems with advanced lighting controls. Include motion sensors tied to dimmable lighting controls.
- Install water-efficient equipment. Water conserving toilets, shower heads, and faucet aerators not only reduce water use, but also reduce demand on septic systems or sewage treatment plants. Reducing hot water use also saves energy.
- Install mechanical ventilation equipment. Mechanical ventilation is usually required to ensure safe, healthy indoor air. Heat recovery ventilators should be considered in cold climates because of energy savings, but simpler, less expensive exhaust-only ventilation systems are also adequate and should be analyzed.



MECHANICAL ENGINEERING DEPARTMENT	ELECTRICAL ENGINEERING DEPARTMENT	PLUMBING/FIRE PROTECTION DEPARTMENT
Erin Bachman – PE (HVAC Designer)	Steffanie Bako – PE (Senior Project Manager)	Sean Keslar (Designer)
Daniel DiCriscio – PE (HVAC/Plumbing Designer)	Douglas Cogley (Technology/Project Manager)	Michael Plummer – PE (Associate/Department Head)
Shane Firestone (HVAC Designer II)	Stephen Kisak – PE (Senior Project Manager)	Mary Smith – PE (Project Manager)
Thomas Gorski – PE (Department Head)	Ted Knickerbocker (Project Manager)	Douglas Weaver (Designer II)
Wei Hu – PE (Senior Designer)	James Martin (Senior Project Manager)	Timothy Zeitler (Senior Project Manager)
Daniel Kendra – PE (Senior Project Manager/Commissioning)	Donald Rugh (Designer II)	
James Kosinski – PE (Senior Project Manager)	John West – PE (Associate/Department Head)	
David Kurelich – PE (Associate/Senior Project Manager)		
Ronald Lamneck (Project Manager/Commissioning)		
Julie Plummer (Senior Designer)		
John Sample (Project Manager/Commissioning)		
Lonnie Schnauffer (HVAC Designer)		
Thomas Valerio – PE (Project Manager)		
James Wall (Senior HVAC Designer)		
Cory Weiland – PE (Senior HVAC Designer)		

Principals:

Thomas J. Gorski (President)
 James N. Kosinski (Vice President)
 Stephen J. Kisak (Vice President)

Administrative:

Gina Martin (Marketing Coordinator)
 Gail Peterson (Human Resources/Payroll Administrator)
 Donna Sweatt (Administrative Assistant)

*PE – Professional Engineer

115 Evergreen Heights Drive, Suite 400, Pittsburgh, Pennsylvania 15229-1346
 Telephone 412.931.8888 Fax 412.939.2525



TOWER ENGINEERING

115 Evergreen Heights Drive – Suite 400 – Pittsburgh, Pennsylvania 15229
Tel: 412.931.8888 – Fax: 412.939.2525 – Email: tower@estower.com

Professional Liability Insurance:

Tower Engineering carries the following insurance coverage:

- Professional Liability Per Claim: \$2,000,000
- Professional Liability Aggregate: \$2,000,000
- Automobile Liability: \$1,000,000
- General Liability Per Claim: \$1,000,000
- General Liability Aggregate: \$2,000,000
- Workers Compensation: \$100,000 each accident, \$500,000 policy limit

Please see attached.

PROFESSIONAL LIABILITY INSURANCE

Tower Engineering maintains Professional Liability Insurance as follows:

Everest National

Policy #79AE000808-11

3/1/2011 - 3/1/2012

Per Claim Limit \$2,000,000.000

Aggregate Limit \$2,000,000.00

Deductible \$15,000.000



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12-06-2010

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER PAYCHEX INSURANCE AGENCY INC 210705 P:()- F:(888)443-6112 P O BOX 33015 SAN ANTONIO TX 78265	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL ADDRESS: PRODUCER CUSTOMER ID #: INSURER(S) AFFORDING COVERAGE NAIC #
INSURED ELWOOD S TOWER CORPORATION 115 EVERGREEN HEIGHTS DR. STE 400 PITTSBURGH PA 15229	INSURER A: Multiple Companies INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC					EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS					COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DEDUCTIBLE RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$ \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory In NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/> N/A	76 WEG YG2010	01/13/2011	01/13/2012	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 100,000 E.L. DISEASE - EA EMPLOYEE \$ 100,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Those usual to the Insured's Operations.

CERTIFICATE HOLDER**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2009 ACORD CORPORATION. All rights reserved.



CERTIFICATE OF LIABILITY INSURANCE

OP ID: FISU

DATE (MM/DD/YYYY)

05/06/11

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Plerson and Scott, Inc. 1700 N. Highland Rd, Suite 307 Pittsburgh, PA 15241 Bruce D. Thomas		412-835-5660	CONTACT NAME: Sue Fisher	PHONE (A/C, Ho, Ext): 412-835-5660	FAX (A/C, Ho): 412-835-8130
		412-835-8130	E-MAIL ADDRESS: sue@plersonandscott.com		
			PRODUCER CUSTOMER ID #: ELWOO-1		
INSURED Elwood S Tower Corp Suite 400 115 Evergreen Heights Road Pittsburgh, PA 15229-1346		INSURER(S) AFFORDING COVERAGE			NAIC #
		INSURER A: Cincinnati Insurance Company			10677
		INSURER B:			
		INSURER C:			
		INSURER D:			
		INSURER E:			
		INSURER F:			

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY			EBP 002 76 76	10/07/10	10/07/11	EACH OCCURRENCE \$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY		DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000				
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR		MED EXP (Any one person) \$ 5,000				
			PERSONAL & ADV INJURY \$ 1,000,000				
	GENL AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE \$ 2,000,000
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC						PRODUCTS - COMP/OP AGG \$ 2,000,000
A	AUTOMOBILE LIABILITY			CAA 517 33 21	10/07/10	10/07/11	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO		BODILY INJURY (Per person) \$				
	<input type="checkbox"/> ALL OWNED AUTOS		BODILY INJURY (Per accident) \$				
	<input type="checkbox"/> SCHEDULED AUTOS		PROPERTY DAMAGE (Per accident) \$				
	<input checked="" type="checkbox"/> HIRED AUTOS						\$
	<input checked="" type="checkbox"/> NON-OWNED AUTOS						\$
A	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR			EBP 002 76 76	10/07/10	10/07/11	EACH OCCURRENCE \$ 4,000,000
	EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE		AGGREGATE \$ 4,000,000				
	DEDUCTIBLE		\$				
	RETENTION \$		\$				
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						WC STATUTORY LIMITS \$
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory In NH) <input type="checkbox"/> Y/N		N/A				E.L. EACH ACCIDENT \$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$
							E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Bruce D. Thomas

© 1988-2009 ACORD CORPORATION. All rights reserved.

SECTION 2 REFERENCES & PROJECT EXPERIENCE



WV DIVISION OF NATURAL RESOURCES, PARKS & RECREATION SECTION

MR. BRADLEY S. LESLIE, PE
304.558.2764
324 FOURTH AVENUE, ROOM 203
SOUTH CHARLESTON, WV 25303



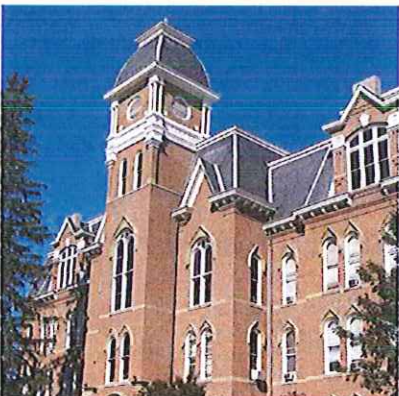
WEST VIRGINIA UNIVERSITY

MR. MITCH ROSS, PMP
CONSTRUCTION MANAGER
304.293.3829
WVU FACILITIES MANAGEMENT
P.O. Box 6570
MORGANTONW, WV 26505



FAIRMONT STATE UNIVERSITY

MR. TOM TUCKER
Asst. Vice President, Physical Plant
304.367.4276
1201 Locust Avenue,
Fairmont, WV 26554



WEST LIBERTY UNIVERSITY

MR. JOHN WRIGHT
Executive Vice President
304.336.8180
109 Campus Service Center
PO Box 295
West Liberty, WV 26074

UNIVERSITY OF PITTSBURGH

MRS. MARY RUE, P.E.
Director of Engineering
Phone: 412.624.2250
3400 Forbes Avenue
Pittsburgh, PA 15260

CARNEGIE MELON UNIVERSITY

MR. MARTIN ALTSCHUL
412.268.2529
Campus Design and Facility Development
5000 Forbes Avenue
Pittsburgh, PA 15213

ALLEGHENY COLLEGE

MR. CLIFF WILLS
Director of Physical Plant
814.332.5378
5230 North Main Street
Meadville, PA 16225

CACAPON STATE PARK LODGE

BERKELEY SPRINGS, WV

YEAR COMPLETED:

Estimated 2015

SQUARE FOOTAGE

70,000

TOTAL CONSTRUCTION COST

\$22 million



Tower Engineering provided the mechanical, electrical, plumbing, and fire protection services for the renovation and expansion of the Cacapon State Park Lodge in Berkeley Springs, West Virginia. The park is available for both family vacations and business retreats, offering access to golf, lake, and camping activities.

The new four story addition of 70,000 square foot consists of:

- 85 new guest rooms, including several suites and ADA accessible rooms.
- A new indoor and outdoor pool, full service spa, and fitness center.
- Conference spaces, a new gift shop, and a new dining room, bar area, and kitchen.
- New larger Gift/Sundries Area & Business Center.
- A new connecting corridor between the existing lodge and new lodge.
- Landscaped outdoor patio overlooking the golf course.
- An elevator to resolve accessibility issues.

The MEPFP systems include the following:

- A new Variable Refrigerant Flow (VRF) HVAC system.
- Dedicated outside air with energy recovery and dehumidification capability.
- A full wet sprinkler system throughout.
- Upgrades to systems serving existing lodge dining room and kitchen facilities.
- Upgrade to the existing electrical service.
- New Fiber Optic distribution throughout the Park.
- New Telecommunications system in the lodge.
- Electrical service upgrades to the park Water Treatment and Waste Water Treatment Plants.

CANAAN VALLEY RESORT STATE PARK

DAVIS, WV

YEAR COMPLETED:

Estimated Fall 2013

SQUARE FOOTAGE

102,534 (addition) 64,993 (renovation)

TOTAL CONSTRUCTION COST

\$25 million



Tower Engineering provided the mechanical, electrical, plumbing, and fire protection services for the renovation and expansion of the Canaan Valley Resort State Park in Davis, West Virginia. The existing resort underwent major renovations to the front entrance, main lobby, café, and gift shop areas. There were five separate guest room lodges. Two were demolished but two new guest room wings, each four stories high, were built and connected to the main lodge so guests can now check in at the main entrance and walk to their rooms without having to travel outdoors.

The two five story wings consist of:

- 168 new guest rooms, including several suites and ADA accessible rooms.
- New larger mechanical / equipment room
- Conference spaces
- New front desk with office spaces
- New connecting lobby between the existing lodge and new lodge
- New private dining area

Ongoing operations at the Canaan Valley Lodge necessitated that existing MEP systems remain in operation. Tower Engineering's MEPFP designs addressed this critical requirement by giving careful consideration to the phasing of all systems. For example, the existing chiller conflicted with the new construction. We specified that a temporary chiller be leased until installation of the new chilled water system could be made operational.

The building's MEPFP systems included the following:

- New mechanical/electrical rooms.
- The addition of cooling capability to existing air handling systems through the use of a coil module.
- Sophisticated controls that allow for front desk personnel to switch each HVAC unit to occupied mode prior to a guest's check-in or to unoccupied after a guest checks out.
- New heat recovery equipment that efficiently conditions and dehumidifies outside air.
- New Fiber Optic distribution throughout the Park.
- New Telecommunications system in the lodge.

LODGE EXPANSION TWIN FALLS STATE PARK

MULLENS, WV

YEAR COMPLETED:

2007

SQUARE FOOTAGE

27,580

TOTAL CONSTRUCTION COST

\$7.4 million



Tower Engineering provided mechanical and electrical engineering services for the expansion of the Twin Falls State Park Lodge in Mullens, West Virginia.

Renovations were made to the existing 14,200 s.f. structure. An addition of 13,380 s.f. includes:

- An additional 27 lodge rooms, including several suites
- Conference space
- A new indoor pool, spa, and fitness center
- An elevator to resolve accessibility issues
- New lodge entrance and lobby and front desk transformation



HOLIDAY VALLEY RESORT TAMARACK CLUB ELLCOTTVILLE, NY

YEAR COMPLETED:

2010

SQUARE FOOTAGE

163,000

TOTAL CONSTRUCTION COST

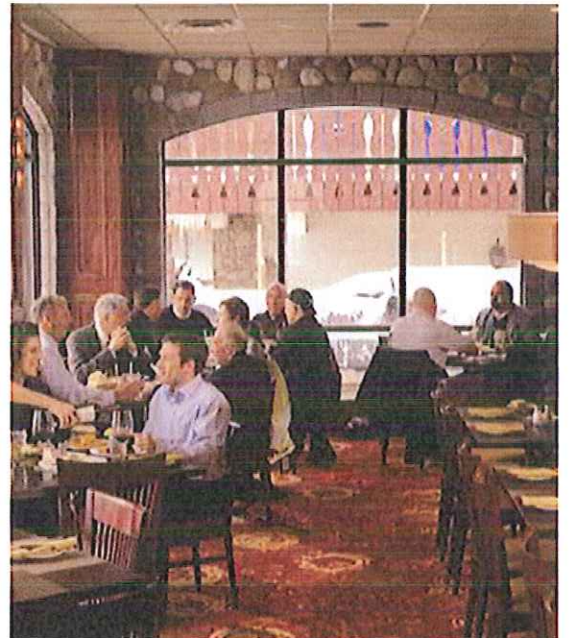
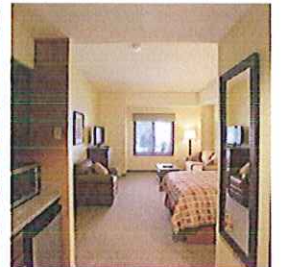
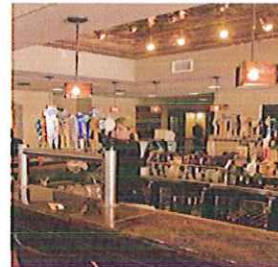
\$40 million



Tower Engineering provided mechanical and electrical engineering services for Holiday Valley Resort's new Tamarack Club, the largest expansion project in the Resort's 50 year history.

Condominium units in this 163,000 s.f. building range from 465 s.f. studios to 1,800 s.f. executive suites. Fifty-nine of the 79 units are one and two bedroom lockout configurations that can be separated into two units. The lockout feature allows the owner private use of their unit, while being able to rent out a separate deluxe hotel suite.

Additional spaces in the building include a heated indoor/outdoor pool, spa, fitness center, underground parking, and a restaurant and lounge.



SEVEN SPRINGS MOUNTAIN RESORT

SEVEN SPRINGS, PA

YEAR COMPLETED:

2006

SQUARE FOOTAGE

35,000

TOTAL CONSTRUCTION COST

\$4.7 million



Tower Engineering provided mechanical and electrical engineering services for a new \$4.7 million Skier Services Building for the seven Springs Mountain Resort. At this one-stop service center, guests can do everything from buy lift tickets to drop off the kids for ski/ride lessons. The new facility serves as the main resort arrival point and as a "bridge" connecting the existing conference/hotel functions with the existing ski lodge. Construction of this three-story, 35,000 s.f. building was part of a \$6.5 million expansion project and was planned and constructed between ski seasons to avoid disruption of resort activities.

Tower Engineering also provided engineering services for the Southwinds at Lake Tahoe, a cooperative design-build project at the Resort. The overall project provided for a series of multi-level condominium units. Each of the seven buildings in the project was comprised of varying combinations of architecturally modular, typical floor plans.

SECTION 3 PROJECT TEAM

PROJECT TEAM

Tower Engineering's highly-trained staff of project managers, engineers, designers, and technical support personnel is capable of providing consulting services for every type of project from a small, MEP renovation to a new high tech research facility incorporating redundant mechanical/electrical systems, DDC energy management and thermal storage. Our staff includes 13 registered professional engineers; 4 graduate engineers, including 1 with engineer-in-training (E.I.T.) certificates; and 1 staff engineer with C.I.P.E. certification. Each project is directed by a principal and assigned a project manager who has overall responsibility for the project from inception through completion.

Our team structure for this agreement will be as follows:

James N. Kosinski, P.E. – Relationship Manager, Principal-in-Charge

As Relationship Manager and Principal-in-Charge, Mr. Kosinski is responsible for contracts and any issues that are corporate, rather than design related. In addition to these primary assignment responsibilities, Mr. Kosinski is available, as needed, for HVAC system design.

Thomas J. Gorski, P.E. – Project Manager

As Project Manager, Mr. Gorski will be responsible for scheduling manpower, coordinating the project between departments, and providing review for HVAC quality control.

Our Team Leaders for projects under this agreement:

- Thomas J. Gorski, P.E. – HVAC Department Head (and Project Manager)
- T. Steffanie Bako, P.E. – Senior Project Manager, Electrical Engineering Department
- Michael S. Plummer, P.E. – Plumbing and Fire Protection Department Head

Tower's Design Team Leaders attend all appropriate design meetings, establish system concept and oversee system design. They monitor daily activity and coordinate with the other firm disciplines, as well as perform quality control reviews. The Team Leaders will spend at least 50% to 60% of their time on the project throughout design and would be available on an as-needed basis during construction administration.



EDUCATION

Bachelor Architectural Engineering
Pennsylvania State University
1989

REGISTRATION

PE, Pennsylvania
PE-045741-E

PE, West Virginia 016993

PE, New York

PE, Maryland

NCEES Registered

NCEES Registration

LEED Accredited Professional
2009

AFFILIATION

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



JAMES N. KOSINSKI, P.E., LEED AP

PRINCIPAL, VICE PRESIDENT

SENIOR PROJECT MANAGER, MECHANICAL ENGINEERING

Mr. Kosinski's primarily responsible for the design of HVAC systems and their components for hospitals, schools, universities, laboratories, office buildings, and commercial and light industrial facilities. He has experience with the design of numerous types of HVAC systems, including constant and variable air volume air handling, geothermal heat pump and exhaust systems; chilled water and hot water; electric/electronic, pneumatic and DDC control systems.

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

REPRESENTATIVE EXPERIENCE

Fairmont State University - Fairmont, West Virginia

Engineering Technology
New Dorm Attic Classrooms
Multiple HVAC Systems Studies in Multiple Buildings
Electro-Optics Center Addition
Musik Library Renovation

Fairmont, West Virginia

Public Safety Building Renovations

Allegheny Energy - Fairmont, West Virginia

New Operations Center (LEED)

West Virginia University - Morgantown, WV

New Recreation Center
Brooks Hall - Lab Renovation
Honors Hall
Law Building Phase I
Parkersburg Applied Technology Center (Parkersburg, WV Campus)

Department of Energy - Morgantown, West Virginia

New Record Storage Facility (LEED)

Morgan County Board of Education - Bath, West Virginia

Berkeley Springs High School Renovation/Addition

10 0473138

Commonwealth of Pennsylvania
 Department of State
 Bureau of Professional and Occupational Affairs
 PO Box 2649 Harrisburg PA 17105-2649



License Type
 Professional Engineer

License Status
 Active

Initial License Date
 08/01/1994

JAMES N KOSINSKI

License Number

Expiration Date
 09/30/2013

Kate True

[Signature]
 Signature

Commissioner of Professional and Occupational Affairs



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

JAMES N KOSINSKI
[REDACTED]

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, 2013



EDUCATION

BS, Mechanical Engineering
Penn State University
1982

REGISTRATION

PE, Pennsylvania
PE-040568-E

PE, West Virginia
PE-11973

PE, New York

NCEES Registration

LEED Accredited Professional
2009

AFFILIATION

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



THOMAS J. GORSKI, P.E., LEED AP

PRINCIPAL, PRESIDENT MECHANICAL ENGINEERING DEPARTMENT HEAD

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

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

REPRESENTATIVE EXPERIENCE

Fairmont, West Virginia
Allegheny Energy New Operations Center

Fairmont State University - Fairmont, West Virginia
Engineering Technology Building

West Virginia University - Morgantown, West Virginia
New Intermodal Transportation Center
New Student Recreation Center
Student Recreation Center Building Commissioning
Caperton Center for Applied Technology
Parkersburg Applied Technology Center (Parkersburg, WV Campus)

Berkeley County Board of Education - Inwood, West Virginia
Musselman High School (new)
Musselman Middle School Renovation/Addition
Potomack Intermediate School (new)

Clay County Board of Education - Clay, West Virginia
High School Auditorium/Classroom Addition

Grant County Board of Education - Petersburg, West Virginia
Petersburg Elementary RTU Replacement

Mercer County Board of Education - Princeton, West Virginia
High School Addition
New Athletic Facilities

Mineral County Board of Education - Keyser, West Virginia
New High School
New Elementary School

United States Army Reserve Center - Jane Lew, West Virginia
Readiness Center and Organizational Maintenance Shop Building

Monongalia Health System - Morgantown, West Virginia
Renovations for ICU Suite

10 0566220

Commonwealth of Pennsylvania
 Department of State
 Bureau of Professional and Occupational Affairs
 PO Box 2649 Harrisburg PA 17105-2649



License Type
 Professional Engineer

License Status
 Active

Initial License Date
 08/01/1990

THOMAS J GORSKI

License Number

Expiration Date
 09/30/2013

Katie True

Thomas J Gorski
 Signature

Commissioner of Professional and Occupational Affairs



West Virginia State Board of Registration
for Professional Engineers

THOMAS J GORSKI
[REDACTED]

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, 2013



EDUCATION

BS Electrical Engineering
Case Western Reserve University
1997

REGISTRATION

Professional Engineer, PA
PE-061041

AFFILIATION

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

AWARD

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

T. STEFFANIE BAKO, P.E.

SENIOR PROJECT MANAGER ELECTRICAL ENGINEERING DEPARTMENT

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

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

REPRESENTATIVE EXPERIENCE

Army National Guard - Fairmont, West Virginia
New Readiness Center

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

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

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

Glennville State College - Glennville, West Virginia
Student Center Renovations

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

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

Massey Energy - Charleston, West Virginia
New Office Building

Monongalia County School District - Morgantown, West Virginia
New Skyview Elementary School
New Mylan Park Elementary School

Twin Falls State Park Resort - Mullens, West Virginia
Lodge Expansion

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

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO Box 2649 Harrisburg PA 17105-2649

10 0596387

License Type

Professional Engineer

License Status

Active

Initial License Date

06/05/2003

T STEFFANIE BAKO

License Number

Expiration Date

09/30/2013

Katherine True

T. Bako

Signature

Commissioner of Professional and Occupational Affairs



EDUCATION

BS, Mechanical Engineering
Penn State University
1997

REGISTRATION

Professional Engineer, PA
PE-062304, 2003

Certified in Plumbing
Engineering (CIPE), 1998

LEED Accredited Professional
2009



MICHAEL S. PLUMMER, P.E., C.I.P.E., LEED AP

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

As a mechanical designer/engineer, Mr. Plummer is primarily responsible for the design of plumbing and fire protection systems and their components for educational, governmental, and commercial buildings.

Mr. Plummer's plumbing/fire protection design responsibilities include performing calculations for hydraulically designed sprinkler systems; designing water supply and pumping systems including fire mains and sizing of fire pumps; design/testing of fire protection and alarm systems; and design of plumbing sewage, gas and water systems. In addition to plumbing/fire protection systems, Mr. Plummer is an experienced HVAC system designer, and performs load calculations, equipment selection and systems layout. His duties include preparation of project specifications, cost estimates, project management, and coordination with architectural and other engineering disciplines.

Mr. Plummer also performs construction administration duties including review of submittals, preparation of punch lists, and field problem solving, as well as supervising the engineering efforts of the Plumbing/Fire Protection Department.

REPRESENTATIVE EXPERIENCE

Brooke County Board of Education - Follansbee, West Virginia
Hooverson Heights Primary School
Bethany Primary School

Cacapon Resort - Berkeley Springs, West Virginia
Lodge Renovation and Expansion

City of Fairmont - Fairmont, West Virginia
Public Safety Building

Fairmont State University - Fairmont, West Virginia
Engineering Technology Building
Conference Center Computer Lab
MATEC Hangar Fire Protection Systems Evaluation

West Liberty University - West Liberty, West Virginia
Shall Hall Renovations

West Virginia Army National Guard - Fairmont, West Virginia
New Reserve Center

West Virginia University - Morgantown, West Virginia
New Transportation Center & Garage

West Virginia High Technology Consortium - Fairmont, West Virginia
Base Building & Tenant Fitup for Office Building Complex

West Virginia National Guard Readiness Center - Buckhannon, West Virginia
New Armory at Readiness Center

Commonwealth of Pennsylvania
 Department of State
 Bureau of Professional and Occupational Affairs
 PO Box 2649 Harrisburg PA 17105-2649

10 0578805



License Type
 Professional Engineer

License Status
 Active

Initial License Date
 06/05/2003

MICHAEL SCOTT PLUMMER

License Number

Expiration Date
 09/30/2013

Katherine True

Michael S. Plummer

Commissioner of Professional and Occupational Affairs

Signature