Prepared for the

State of West Virginia

Department of Administration

Purchasing Division

April, 2009

Architectural and Engineering Services

Camp Dawson
Kingwood, WV

RFQ Number: DEFK9019

VEBH ARCHITECTS

VEBH ARCHITECTS
470 WASHINGTON ROAD
PITTSBURGH, PA 15228

TEL 412.561.7117
FAX 412.561.9025
EMAIL vebh@vebh.com
WEB www.vebh.com

ARCHITECTS

VEBH ARCHITECTS, P.C.
470 WASHINGTON ROAD
PITTSBURGH, PA 15228

TEL 412.561.7117
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EMAIL vebh@vebh.com
WEB www.vebh.com

March 31, 2009

Mr. John Abbott
Purchasing Division, Bldg 15
2019 Washington Street, East
P. O. Box 50130
Charleston, WV 25305-0130

RE: DEFK9019
Architectural / Engineering Services
Camp Dawson
Kingwood, West Virginia

Dear Mr. Abbott:

We are pleased to submit our firm's qualifications to provide Architectural / Engineering services to Camp Dawson for its anticipated lodging facilities project.

Our firm has worked with institutional clients to design comparable residence facilities to serve a variety of functions. Our designs produce comfortable residential environments that also incorporate productive work and meeting spaces.

We are licensed in the state of West Virginia and our experience includes work for Monongalia General Hospital in Morgantown. For your review, we have compiled descriptive material and a list of related projects that illustrates our proposed design team's experience with similar projects and clients.

In our work, we have developed a strong appreciation and knowledge of the need to design durable facilities that also serve to foster a favorable impression of an institution from those who use the residence space.

If you have any questions concerning our firm and/or the accompanying material, please don't hesitate to call.

Thank you for the opportunity to submit our qualifications.

Sincerely,

Stephen A. Kurpiewski, AIA, Treasurer
VEBH Architects

Enclosure

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	PAGE
DEFK9019	1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
JOHN ABBOTT
304-558-2544

VENDOR
RFQ COPY
VEBH Architects
470 Washington Road
Pittsburgh, PA 15228

SHIP TO
DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

1707 COONSKIN DRIVE
CHARLESTON, WV
25311-1099 341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/12/2009				

BID OPENING DATE: 04/01/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		

ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL

CONTRACT TO PROVIDE ARCHITECT & ENGINEERING SERVICES FOR THE WEST VIRGINIA ARMY NATIONAL GUARD, CAMP DAWSON KINGWOOD, WV LOCATION, PER THE ATTACHED DOCUMENTATION.

NOTICE

A SIGNED BID MUST BE SUBMITTED TO:

DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
BUILDING 15
2019 WASHINGTON STREET, EAST
CHARLESTON, WV 25305-0130

THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:

SEALED BID

BUYER: JOHN ABBOTT----------

RFQ. NO.: DEFK9019----------

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 412-561-7117 DATE 3/31/09

TITLE Treasurer FEIN 25-1221110 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	PAGE
DEFK9019	2

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VENDOR

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
	BID OPENING DATE:			04/01/2009----------		
	BID OPENING TIME:			1:30 PM----------		
	PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: 412-561-9025					
	CONTACT PERSON (PLEASE PRINT CLEARLY): Stephen Kurpiewski					
	****** THIS IS THE END OF RFQ DEFK9019 ****** TOTAL:					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	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: VEBH Architects

Authorized Signature: _____ Date: 3/31/09

V E
B H

ARCHITECTS

470 Washington Road
Pittsburgh, PA 15228

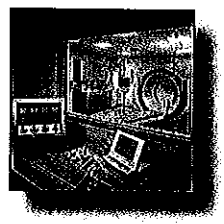
tel 412.561.7117
fax 412.561.9025
email vebh@vebh.com
web www.vebh.com

Quality Architectural Service for 60+ Years

Since 1945, our firm has provided quality architectural services from a single office in the South Hills of Pittsburgh. We provide prompt, efficient service to our clients for each of their construction and building maintenance projects. Throughout our history, our goals have remained simple... a straightforward approach to solving our clients' facilities needs... large and small / new construction, additions, renovation and repairs... that function for them for the long term.

Our Goal: a straightforward approach to design that provides clients with practical solutions and facilities that function for the long term.

- **Outstanding Service that is Rewarded with Long term Relationships**. Our list of clients includes more than ten for whom we have served for a decade or longer. We have completed 58 years of continuous service to St. Clair Hospital.



- We are proud of the many clients with whom we have developed a continuing client relationship:

St Clair Hospital	58 years
Keystone Oaks School District	43 years
The Washington Hospital	26 years
Pittsburgh Theological Seminary	27 years
Waynesburg University	20 years
UCP of Southwestern PA	19 years
Monongahela Valley Hospital	18 years
Alle-Kiski Medical Center (Allegheny Valley Hospital)	18 years
Trinity Area School District	12 years

- **Principals who are Working Architects**. An owner of the firm participates in all aspects of each project and communicates regularly with our clients in an effort to meet their needs and objectives.

- **Open Communication** as a framework to identify our clients' needs and to provide them with important input in the process of developing effective solutions.

- **Carefully Prepared Drawings and Specifications, and Attentive Contract Administration** to establish and maintain a lasting quality and a life of low maintenance for our clients' facilities.

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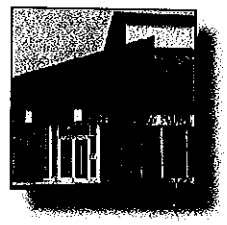

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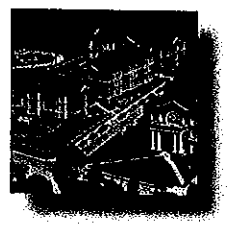

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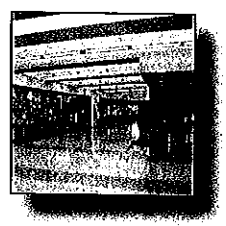

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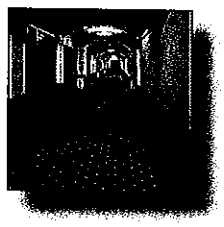
Full Range of Architectural Services

In-House Services:

- Feasibility Studies
- Site Evaluation
- Site Development
- Master Planning
- Project Programming
- Schematic Design
- Design Development
- Systems Analysis
- Cost Analysis
- Construction Documents
- Equipment Layouts
- Interior Design
- Bidding & Negotiation
- Construction Contract Administration
- Maintenance Programming
- Agency Review
- Design / Build
- Sustainable Design Capability (LEED)

Throughout our long history, VEBH Architects has provided complete Architectural Services to a wide variety of clientele. Unique in this industry, our relationships with clients extend from the initial planning for a project to beyond its final occupancy, and often times to additional work.

We measure our success by the number of projects we complete for a client rather than the number of clients we serve.



Planning: Beginning in the earliest stages of any project, VEBH Architects seeks design solutions that address short-term goals without losing sight of the long-term impact.

Design: Our firm takes a thoughtful approach to the design process focusing on the needs of our clients. We seek practical architectural solutions that function over time, are easy to maintain, and affordable to implement.

Construction Phase Services: Attentive administration of construction contacts is a vital component of our total service. Our participation in a project through the construction provides a critical quality control measure for our clients' benefit.

VEBH is intimately familiar with the complexities of construction in a healthcare environment, including the planning for a program of phased construction to assure continued operation, infection control, and acquiring the necessary approvals for projects to proceed.

Full A/E Service: With the support of appropriate and experienced consulting engineers and other design professionals, our firm serves as a single source for the full A/E needs of our clients.

VEBH Architects
Valentour English Bodnar & Howell, registered architects
470 Washington Road Pittsburgh, PA 15228 412-561-7117

STAFF AND CAPABILITIES

VEBH Architects is purposely sized to maintain control of each project and provide personal service while providing the breadth of abilities from numerous professionals.

We have worked from the same suburban Pittsburgh address since 1950, in a building owned by the firm. Our offices and our technical capabilities have grown to allow us to effectively and efficiently serve our clients' needs.

Our Professional Staff:

8 Registered Architects

2 Graduate Architects

1 Interior Designer

Staff: Our staff of 16 includes eight Registered Architects and is diversely skilled with experience that has developed while serving a broad range of clientele.

Each of our clients' projects benefits from the full attention of a principal of the firm. Our principals are "working" architects, each with at least 20 years of experience.

Engineering Design Services: Our clients benefit from the broader scope of the specialized experience that our consulting engineers and site planners have gained working on projects both with our firm and with other design firms.

LEED and Sustainable Design: VEBH is capable of delivering services to provide state-of-the-art efficiencies through design and reduction of energy consumption in a finished facility.

Capabilities: VEBH Architects is fully CAD capable and compatible with systems utilized by the consulting professionals necessary to provide full Architectural / Engineering services to our clients.

VEBH ARCHITECTS
VALENTOUR ENGLISH BODNAR & HOWELL, REGISTERED ARCHITECTS
470 WASHINGTON ROAD PITTSBURGH, PA 15228 412-561-7117

FIRM PRINCIPALS

A high standard for quality design has been instilled in each generation of the firm's ownership

Founded in 1945 as
Kuhn and Newcomer

1956
Kuhn Newcomer and
Valentour

1973
Johnstone Newcomer &
Valentour

1979
Valentour English &
Associates

1987
Valentour English Bodnar

1997
Valentour English Bodnar
& Howell, Registered
Architects

2009
VEBH Architects

Robert D. Bodnar, AIA, President
Mr. Bodnar graduated from the University of Notre Dame with the degree of Bachelor of Architecture in 1967. He joined the firm that same year. Mr. Bodnar is a member of the American Institute of Architects, the AIA - Pennsylvania and the Health Executive Forum of Southwestern Pennsylvania.

James D. Howell, AIA, Vice President
Mr. Howell has been with the firm since 1975 and received his Bachelor of Architecture degree from Kent State University. He is a member of the American Institute of Architect, AIA - Pennsylvania and holds a certificate from NCARB. He is also a member of the Council of Education Facilities Planners, International and the Tri-State Area School Study Council.

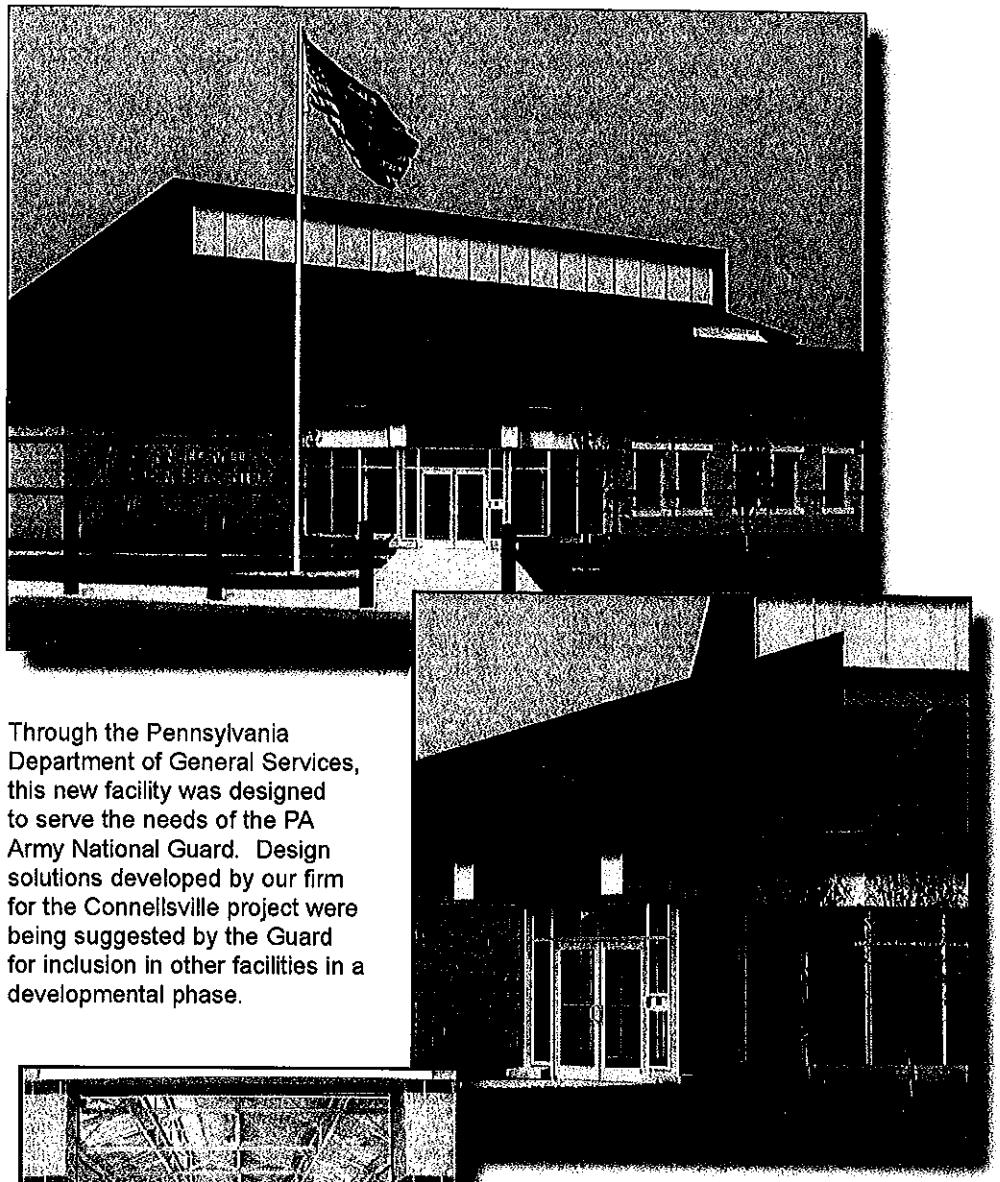
Stephen A. Kurpiewski, AIA, Treasurer
Mr. Kurpiewski graduated with University Honors, receiving a Bachelor of Architecture degree from Carnegie Mellon University in 1975. He joined the firm in 1984. He is a member of the American Institute of Architects. the AIA - Pennsylvania, and holds a certificate from NCARB.

Thomas F. Durkin, AIA, Secretary
Mr. Durkin received his Bachelor of Design in Architecture from the University of Florida in Gainesville in 1977. He joined the firm in 1988. Mr. Durkin is a member of the American Institute of Architects, AIA - Pennsylvania, and holds a certificate from NCARB.

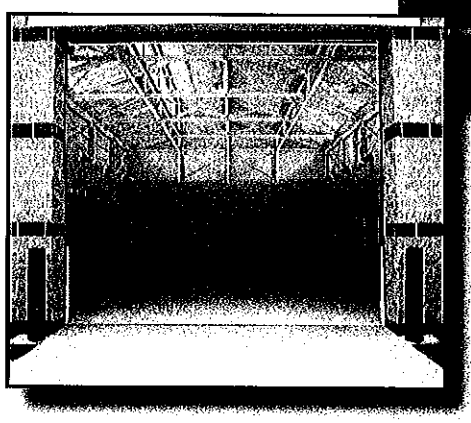
Pennsylvania Army National Guard
Connellsville Readiness Center

PA Army
National Guard
1129 Utility Road
Annville, PA
17003

Maj. Daneen Hutton
SBCT Project
Manager
717-861-2216



Through the Pennsylvania Department of General Services, this new facility was designed to serve the needs of the PA Army National Guard. Design solutions developed by our firm for the Connellsville project were being suggested by the Guard for inclusion in other facilities in a developmental phase.



Included in the Center are training facilities for a vehicle (tank) simulator, maintenance training, classrooms, and vault for weapons storage. A kitchen and related serving and storage areas are included in the building as well as a 5,000+ sq. ft. assembly hall.

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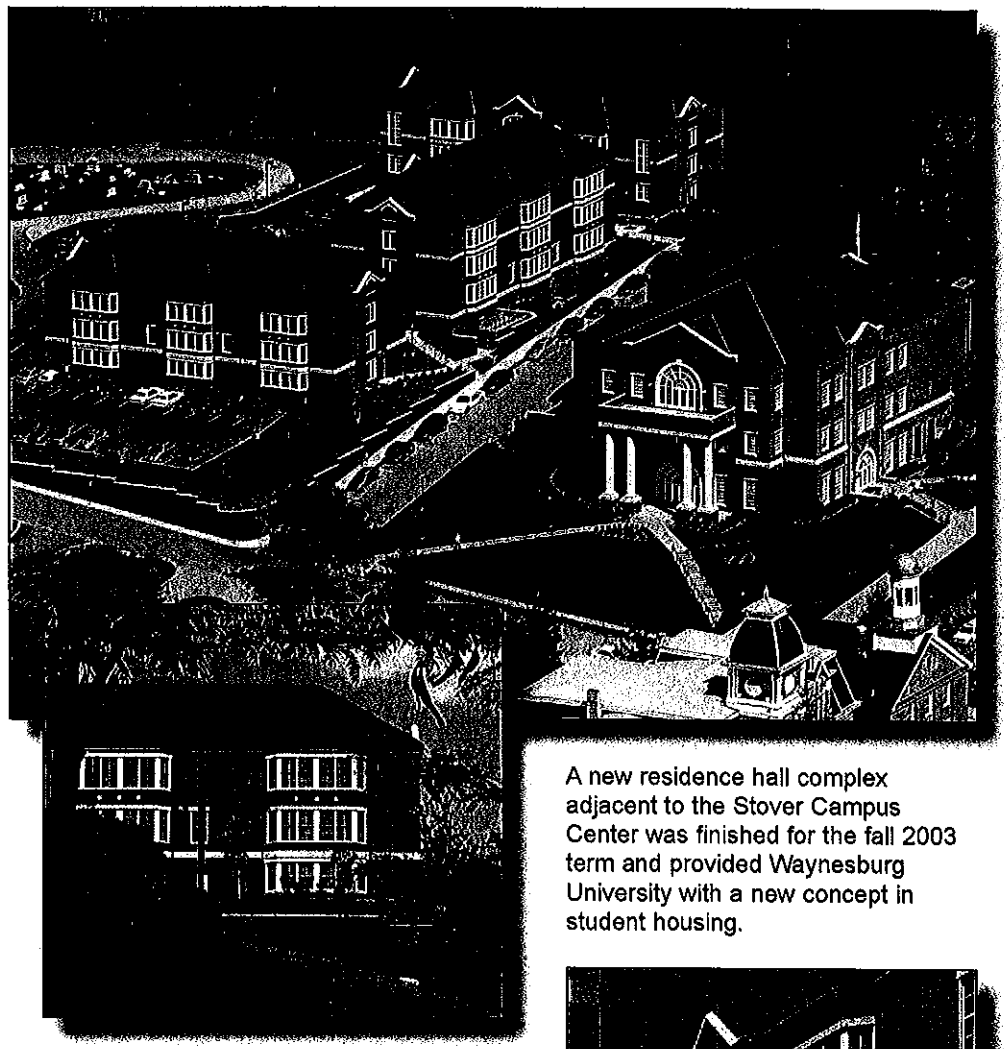
470 Washington Road Pittsburgh, PA 15228 412-561-7117

WAYNESBURG UNIVERSITY
RESIDENCE HALL COMPLEX

The Waynesburg University **Residence Halls Complex** has been recognized as *"Outstanding Buildings"* by ***American School & University*** and included in the magazine's 2004 Architectural Portfolio

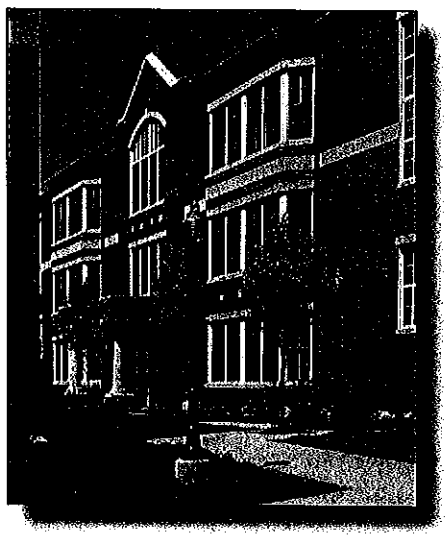
The project received additional recognition from *AS/U* in their September 2005 publication



A new residence hall complex adjacent to the Stover Campus Center was finished for the fall 2003 term and provided Waynesburg University with a new concept in student housing.

The three-building, 54,000 sq. ft. complex accommodates 150+ students. The buildings are deliberately sized to provide the University with options in grouping of smaller 'communities' with similar age, gender, and/or academic focus.

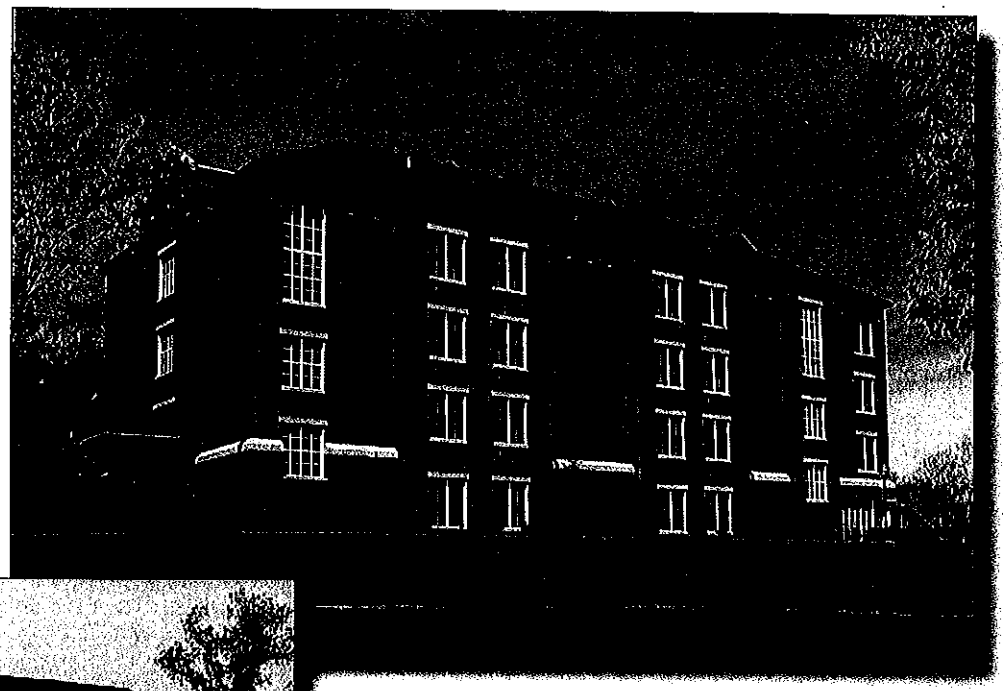
Smaller, multiple buildings were able to be sized to match the scale of existing campus buildings and the traditional architectural vocabulary of the campus.



VEBH ARCHITECTS
VALENTOUR ENGLISH BODNAR & HOWELL, REGISTERED ARCHITECTS
470 WASHINGTON ROAD PITTSBURGH, PA 15228 412-561-7117

WAYNESBURG UNIVERSITY
NEW RESIDENCE HALL - POLLOCK HALL

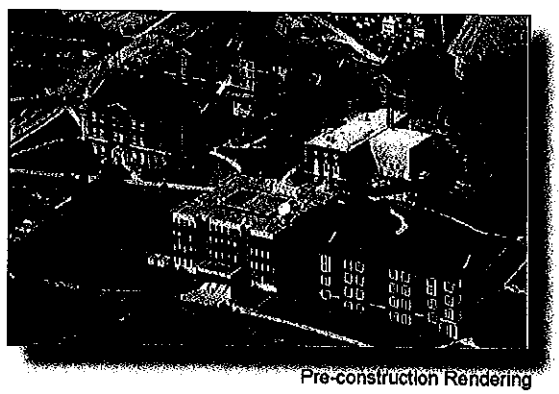
The success of the Residence Halls Complex that was completed in 2003 prompted Waynesburg University and VEBH to move quickly to develop this additional building.



The new Residence Hall, completed in 2005 is home for nearly 70 students. The building's design produces a similar blend of personal and common living spaces for students that was designed into the residence halls complex opened in 2003.

The combination of selected 'apartment-style' components with traditional campus housing elements has proven to be very popular with students.

Even with amenities such as carpeting, wide corridors, lounge areas on each floor, and air conditioning, the cost of the new residence hall compares favorably to residence hall construction on other campuses. The 'cost per square foot' and "cost per student" were below the average for residence hall construction data compiled for a recent Annual Construction Report of a national publication.



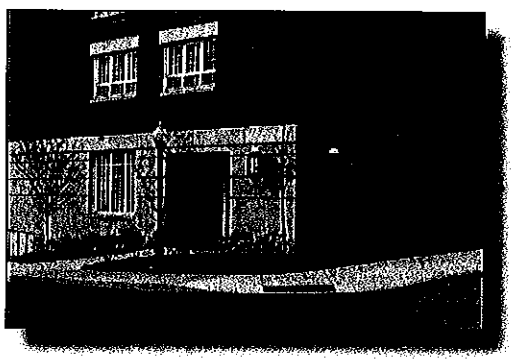
Pre-construction Rendering

VEBH ARCHITECTS
VALENTOUR ENGLISH BODNAR & HOWELL, REGISTERED ARCHITECTS
470 WASHINGTON ROAD PITTSBURGH, PA 15228 412-561-7117

Waynesburg University
New Residence Hall

Waynesburg University
51 West College St.
Waynesburg, PA
15370

Mr. Roy Barnhart,
Vice President
Business & Finance
724-852-3241



As the first new building at the newly renamed Waynesburg University, this new Residence Hall now provides housing for 140 students. The six-story design incorporates many of the popular amenities that were included in the four smaller residence hall buildings designed by VEBH for the campus and constructed since 2003.

The uniquely configured rooms accommodate two students, providing each with a semi-private sleeping and study space and a shared 'living room' and bathroom. The building's lower floor provides community-use spaces such as a lounge, full kitchen, and laundry.

The site for the new residence hall is located at the front edge of the campus and its exterior was designed to contribute to the first impression offered visitors arriving on campus from downtown Waynesburg.

This building was completed on schedule for the Fall 2008 semester.

VEBH Architects
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470 Washington Road Pittsburgh, PA 15228 412-561-7117

Pittsburgh Theological Seminary
New Residence Hall

Pittsburgh Theological Seminary
616 North Highland Avenue
Pittsburgh, PA
15206

Mr. Tom Fulton,
Dir. of Facilities
412-362-5610 x2187

The new residence hall building replaced an aging dormitory with a facility that provides more attractive, larger residential rooms for students. It addresses a critical need identified by the Seminary in its effort to attract and retain students.

The new building contains a modern infrastructure with wired technology in each room and air conditioning throughout. The interior finishes reflect the more mature demeanor of the Seminary's students.

The exterior of the residence hall features architectural elements to seamlessly blend the new building with the existing campus, and importantly, to maintain the 'look' of the Seminary from North Highland Avenue, despite the new building's closer proximity to the street.

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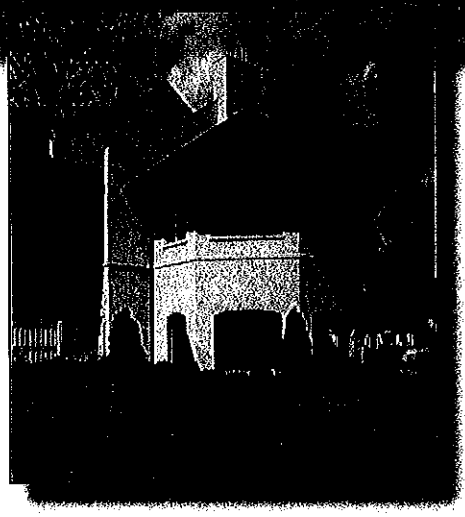
470 Washington Road Pittsburgh, PA 15228 412-561-7117

The Washington Hospital
Donnell House - Residential Hospice

The Washington Hospital
155 Wilson Avenue
Washington, PA
15301

Greg Caldwell
Dir. of Maintenance
and Operations
724-223-3618



The Donnell House opened as the only free-standing facility of its type in Western Pennsylvania. It was designed and built to provide comprehensive care and comfort for terminally ill patients and their families. The architectural style for the facility has been adapted from an English country home and, together with the landscape provide a comforting environment.

Interior spaces feature private bedrooms for eight patients, as well as a great room for group activities and family dining, private family rooms, day room, and chapel.

The Hospice Organization's meeting spaces are included on the first and third floor of the building, away from patient bedrooms.

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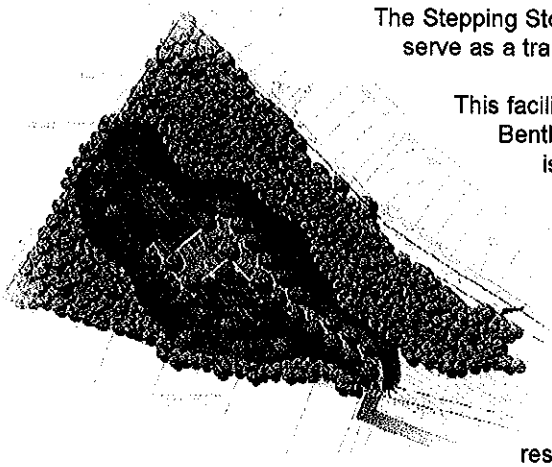
MENTAL HEALTH ASSOC. OF WASHINGTON COUNTY
LONG TERM STRUCTURED RESIDENCE

Mental Health Assoc. of Washington County
15 S. College St.
Washington, PA
15301

Lynne Loresch
Executive Director
724-225-2061



The Stepping Stone was designed to serve as a transitional living facility.

This facility is located in Bentleyville Pennsylvania and is accompanied by a second building that serves as an enhanced personal care home for older persons.

The two facilities were designed to house a total of 28 residents and to relocate the Association's residential facilities to a more private, rural location within Bentleyville.

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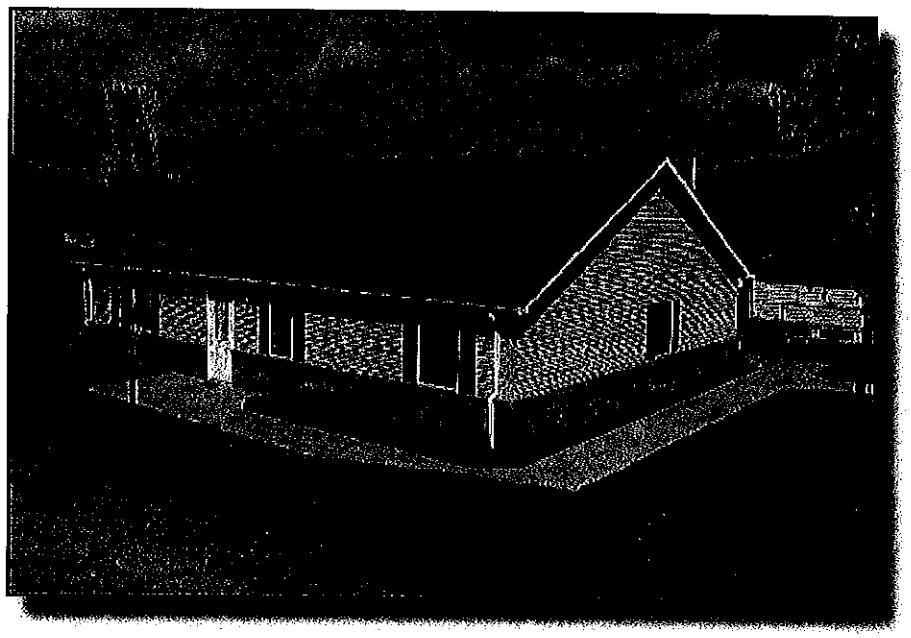
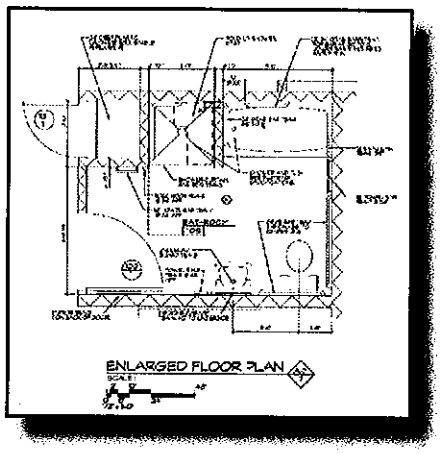
United Cerebral Palsy of SW PA

Residential Facilities



United Cerebral Palsy of SW Pa
190 N. Main St.
Washington, PA
15301

Jill Ealy
Executive Director
724-229-0851



VEBH Architects has worked with UCP to design a number of facilities that support their work in Washington and Greene Counties. Six residential facilities are providing a transitional home for UCP clients with disabilities.

Emphasis for these homes was placed on providing accessible living spaces including kitchens and bathrooms.

The UCP offices were designed by VEBH to provide the organization with the ability to coordinate a number of important community services for Washington County and the Southwest corner of Pennsylvania.

VEBH Architects
Valentour English Bodnar & Howell, registered architects
470 Washington Road Pittsburgh, PA 15228 412-561-7117

Stephen A. Kurpiewski, AIA

PRINCIPAL / PROJECT ARCHITECT

Firm Treasurer since 1996

Experience	30 Years
Education	Bachelor of Architecture, Carnegie Mellon University – 1975
Professional Affiliations	American Institute of Architects American Institute of Architects – Pennsylvania National Council of Architectural Registration Boards

Recent and Major Project Experience

PA DEPT OF GENERAL SERVICES / PA NATIONAL GUARD
New Armory / Readiness Center
Construction is complete on this new building that is providing a training facility for the PA National Guard in Connellsville, PA. Included in the building are a vehicle (tank) simulator, maintenance training, classrooms and storage facilities.

THE WASHINGTON HOSPITAL

Donnell House Residential Hospice
This 20,000 sq. ft. facility serves the Hospital's expanding hospice care program. When it opened, it was the only freestanding facility of its kind in Western Pennsylvania. Mr. Kurpiewski was the Design and Project Architect for this project.

Multiple Family Practice Centers
Satellite facilities in Cecil, Waynesburg and Avella provide services for the communities served by The Washington Hospital.

MONONGALIA GENERAL HOSPITAL

Alterations and Expansion of ICU
The renovation project is expanded the existing facility to a 10 bed suite by capturing underutilized space in an area adjacent to the existing suite.

Multiple Improvement Projects

SHARON REGIONAL HEALTH SYSTEM
Outpatient Diagnostic & Imaging Center
This freestanding building was designed to provide multiple diagnostic services, a full imaging department, and woman's health center. The facility also includes space for community education and meetings.

NASA, GLENN RESEARCH CENTER
Renovations to Building 49
This project updated and consolidated NASA's polymer and materials research into a single facility. More than 25 chemistry and testing labs were organized to minimize the cost of installing the extensive plumbing, ventilation and exhaust systems.

WAYNESBURG UNIVERSITY

Performing Arts Center
The PAC provides a 250 seat theater for the campus and Waynesburg community. It occupies a strategic location, anchoring the western end of the campus quadrangle.

ST. CLAIR HOSPITAL

Outpatient Center at 2000 Oxford
The 18,000 sq. ft. facility occupies the first floor of the 2000 Oxford Building and provides outpatient and diagnostic services. Its largest component is a Medical Imaging Department with an MRI and CT scanner, Ultrasound, Mammography and Bone Density measurement equipment.

6E Addition
13,500 Sq. Ft. vertical addition to the hospital E-Wing provided space for a new nursing unit. The project was constructed while the floors under the addition remained in-use.

SOUTHWESTERN ENDOSCOPY CENTER
The project entailed renovations to expand the clinical practice of the Center to a vacant floor below their existing space in Uniontown, PA. The design worked to provide privacy for patients while still maintaining important visibility

HERITAGE VALLEY BEAVER

Gift Shop and Lobby Renovations
The renovation of these areas provided a new, more welcoming environment for patients and visitors. Full height, floor to ceiling glass panels open the space visually in addition to providing

Outpatient Testing and Registration
This relocated and expanded facility offers a variety of diagnostic testing and lab work at an easy-to-access location at the main entrance to the Hospital. The design for the Registration area incorporated a new self-registration system instituted by the Heritage Valley Health System.

HERITAGE VALLEY SEWICKLEY

Lobby, Gift Shop, and Snack Shop Renovations
In anticipation of the expansion of the Emergency Department the Hospital Lobby and support spaces were renovated and reconfigured in the architectural style of the Sewickley community.

Renovation to Relocate Outpatient Testing and Registration
The relocation of these departments near the Hospital's main entrance added convenience for patients by consolidating and streamlining services in a well-organized, comfortably designed area.

SOUTH HILLS MAGNETIC IMAGING INSTITUTE,
The design for this freestanding building provides a transition from a series of retail buildings and a residential neighborhood.

ST. THOMAS MORE CHURCH, Interior Renovations
This interior renovation project transformed the worship space into a warmer, more intimate facility. A careful selection of interior finishes accents the simulated structural elements added to break up the large ceiling and provide a more human scale to the interiors.

NATIONAL CITY BANK OF PENNSYLVANIA

Trinity Point Branch Office, Washington, PA
A colorful roofline creates high visibility for this new branch office and takes advantage of its location within the rolling hills, adjacent to a major highway. The roof structure provides a very open interior space for the bank's customers.

Thomas R. Chidlow, AIA, LEED AP

PROJECT ARCHITECT

Experience	19 Years
Education	Bachelor of Science – Architecture, Drexel University – 1992
	Bachelor of Arts – Environmental Design, Miami University - 1988
Professional Affiliations	American Institute of Architects
	American Institute of Architects – Pennsylvania

Recent and Major Project Experience

WAYNESBURG UNIVERSITY

New Dormitory Complex
This three-building complex is providing modern dormitory space for 150 students. The cluster of three buildings introduced an *alternative housing concept* to the current inventory of housing facilities on campus. The project was complete on schedule for the fall 2003 term.

THE PITTSBURGH THEOLOGICAL SEMINARY

Calian Residence Hall
This 36,000 sq. ft. residence hall building replaced an existing dormitory with a modern facility. The design succeeded in blending the new building with the existing campus and providing the desired amenities for the graduate-level student population of the Seminary.

Dining Room and Kitchen Renovations
The scope of this project included the renovation of a 200 seat dining room and complete kitchen.

Museum Renovations
The James. L. Kelso Bible Lands Museum provides the space to display and properly store the Seminary's collection of ancient Holy Lands artifacts.

UNITED CEREBRAL PALSY OF SW PA
Your Child's Place
This unique facility provides daycare services for children who are in constant need of medical attention. The medical infrastructure for this facility is masked by bold colors and activity stations typical of a standard daycare.

Group Homes for Independent Living
Multiple HUD-funded homes in the Washington and Greene Counties provide a home for individuals who require supervision in an independent living environment.

MENTAL HEALTH ASSOCIATION OF WASHINGTON COUNTY
Long-term Structured Residence and Personal Care Residence Buildings
Two new residential buildings in Bentleyville provide continuing care in a safe, monitored environment for patients that are in transition from constant care to reintegration to the community.

THE WASHINGTON HOSPITAL
Additions and Alterations
A major Hospital expansion is providing 130,000 sq. ft. of new and renovated space for the Hospital. Included in the project was an all-new Emergency Department that encompasses 23,400 sq. ft and includes 32 exam/treatment rooms and 6 holding beds.

SHARON REGIONAL HEALTH SYSTEM
Outpatient Diagnostic & Imaging Center
This freestanding building was designed to provide multiple diagnostic services, a full imaging department, and woman's health center. The facility also includes space for community education and meetings.

PENNSYLVANIA INDUSTRIAL DEVELOPMENT AUTHORITY
Oversight on Construction Loans
VEBH worked with PIDA to verify construction milestones for a variety of projects related to the applications for payment.

SHALER AREA SCHOOL DISTRICT

District-wide Facility Study

Additions and Alterations to Shaler Area High School
This major improvements project reorganized the existing classroom spaces and created additional classrooms necessary to relocate the District's ninth grade education program to the High School building.

Multiple Improvement Projects have occurred in the District's buildings.

TRINITY AREA SCHOOL DISTRICT

Additions and Alterations to Trinity High School
This $30 million renovation of Trinity High School was recently completed. The major features of the project included additions for a new main entrance and administrative office area, a library/media center, and auxiliary gymnasium.

CHARTIERS VALLEY SCHOOL DISTRICT

High School Capital Improvements
Renovations were designed to improve restrooms and the auditorium lobby at the High School.

Additions and Alterations / Multiple Buildings
Major improvements at each of the District's three buildings are under construction to address projected enrollment growth. Solutions specific to the needs of each building have been developed.

KEYSTONE OAKS SCHOOL DISTRICT

Consolidation and Modernization Program
Tom Chidlow work on several projects on this $38 million construction program. The total program included two new buildings and the complete renovation and additions to two others.

Renovations to Keystone Oaks High School - Feasibility Study.
This study mapped the renovation and addition project to address the educational needs at the High School.

ST. THOMAS MORE CHURCH

Family Life and Education Center
Construction is underway for this multi-purpose facility The Center will replace the existing school and parish center buildings and generously expand the space available for the Church's educational program, organizational meetings, family-oriented programs and recreation.

NATIONAL CITY BANK OF PENNSYLVANIA

Trinity Point Branch Office
A colorful roofline creates high visibility for this new branch office and takes advantage of its location within the rolling hills, adjacent to a major highway. The roof structure provides a very open interior space for the bank's customers.

THOMAS J. GORSKI, P.E.

Principal, President
Mechanical Engineering Department Head

EDUCATION

BS, Mechanical Engineering
Penn State University
1982

REGISTRATION

PE, Pennsylvania
PE-040568-E

PE, West Virginia
PE-11973

PE, New York

NCEES Registration

AFFILIATION

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

Mr. Gorski has twenty-six (26) years of experience as a mechanical engineer. His 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:

Pennsylvania Army National Guard, Connellsville, Pennsylvania
New Readiness Center

U.S. Army Reserve Center, Jane Lew, West Virginia
Readiness Center and Organizational Maintenance Shop Building

Stryker Brigade Combat Team, Cambridge Springs, Pennsylvania
Readiness Center & OMS

H.J. Heinz Lofts, Pittsburgh, Pennsylvania
Adaptive Reuse/Renovation of Five Former Industrial Buildings

Ebensburg Center, Ebensburg, Pennsylvania
Heating System Replacement in Dormitory Buildings 1-7

Housing Authority of City of Pittsburgh, Pittsburgh, Pennsylvania
Open-Ended Agreement Demolition Task Orders, Multiple Projects

McKeesport Housing Authority, McKeesport, Pennsylvania
Open-Ended Agreement for Engineering Services, Multiple Projects

University of Pittsburgh, Pittsburgh, Pennsylvania
New Upper Campus Housing, Phases 1 and 2

Westmoreland County Housing Authority, Scottdale, Pennsylvania
Scottdale Manor Efficiency Conversion

University of Pittsburgh, Pittsburgh, Pennsylvania
Upper Campus Housing Phases 1 and 2

TOWER ENGINEERING

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

Firm Associate
Plumbing & Fire Protection Engineering Department Head

EDUCATION

Bachelor Mechanical Engineering
Penn State University
1997

REGISTRATION

PE, Pennsylvania
PE-062304, 2003

Certified in Plumbing
Engineering (CIPE), 1998

With eleven (11) years of experience 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

Pennsylvania Army National Guard, Connellsville, Pennsylvania
New Readiness Center

Stryker Brigade Combat Team, Cambridge Springs, Pennsylvania
Readiness Center & OMS

H.J. Heinz Lofts, Pittsburgh, Pennsylvania
Adaptive Reuse/Renovation of Five Former Industrial Buildings

Collington SeniorCare, Prince George's County, Maryland
Life Care Community, Multiple Renovations/New Construction

Best Western Inn & Suites Hotel, State College, Pennsylvania
New Hotel

Waynesburg University, Waynesburg, Pennsylvania
New Men's Dormitory Building

McKeesport Housing Authority, McKeesport, Pennsylvania
Open Ended Agreement for Engineering Services, Multiple Projects

Housing Authority of Pittsburgh, Pittsburgh, Pennsylvania
Multiple Demolition Projects

TOWER ENGINEERING

STEPHEN J. KISAK, P.E.

Principal
Electrical Engineering Department Head

EDUCATION

Master of Business Administration
Frostburg University
1997

BS, Electrical Engineering
University of Pittsburgh
1988

REGISTRATION

PE, Pennsylvania
PE-052645-E

PE, Virginia
PE-0402-026204

An electrical designer/engineer for twenty (20) years, including 3 years as a high voltage electrical designer, Mr. Kisak has provided engineering services for the design of educational facilities, office buildings, college and university facilities, health care, assisted living/nursing homes, and commercial facilities. His 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.

Mr. Kisak's design responsibilities including 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

Pennsylvania Army National Guard, Connellsville, Pennsylvania
New Readiness Center

Stryker Brigade Combat Team, Cambridge Springs, Pennsylvania
Readiness Center & OMS

VA Pittsburgh Medical Center, Pittsburgh, Pennsylvania
Inpatient Pharmacy Renovation
IMRT and IMRT2 Renovations
New Parking Garage
Radiology Dept Offices
Parking Garage New Substation

H. J. Heinz Lofts, Pittsburgh, Pennsylvania
Adaptive Reuse and Renovation

University of Pittsburgh, Pittsburgh, Pennsylvania
Upper Campus Housing (Phases 1 and 2)

Collington Life Care Community, Mitchellville, Maryland
Senior Housing Community Renovations & New Construction of Multiple Facilities

Washington & Jefferson College, Washington, Pennsylvania
New Residence Halls Phases I and II

TOWER
ENGINEERING

Atlantic Engineering Services

JOHN M. SCHNEIDER, P.E.
Vice President
Atlantic Engineering Services of Pittsburgh

Role in Project: Principal in Charge

Education: Bachelor of Architectural Engineering
Pennsylvania State University, 1983

Experience:

Mr. Schneider began consulting for architects on structures in 1983. He has served as project manager and project engineer for a wide variety of facility studies, new construction/renovation, building additions and historic preservation projects, both in the United States and overseas. Mr. Schneider's experience includes many projects for the federal government. His duties include day-to-day project supervision, project scheduling for the entire organization, and coordination with other consultants.

Mr. Schneider has acted as senior project engineer for historic preservation, renovation, and new construction projects. Recent projects directed by Mr. Schneider range in size from as small as $1 million to as large as $110 million. His work includes the design of hotels, condominiums and other residential projects. One project, the First Year Residence Hall at Carnegie Mellon University, a six-story, $11 million student apartment building, recently received a Silver LEEDS designation, the first residence hall in the United States to do so. His work also includes the 10-story Upper Campus Housing Phase 2 project at the University of Pittsburgh, a 513-bed dormitory building, and the Wilson Lodge Addition, a 53-room addition to Wilson Lodge in Oglebay Park, West Virginia.

Mr. Schneider's recent experience with the design and construction of other residential communities includes the award winning projects for the Masonic Village at Sewickley, PA (Platinum Award in 2004) and the Collington Episcopal Lifecare Community, Mitchellville, MD (Silver Award in 2003), as well as work with the Longwood at Oakmont Assisted Living Community and Laurelbrook Landing at Brookville, PA.

Professional Registrations: Licensed Professional Engineer in Pennsylvania, District of Columbia, Maine, Massachusetts, Michigan, Minnesota, New York, Ohio, Rhode Island, Utah, Virginia, and West Virginia. Mr. Schneider is NCEES certified.

Professional Memberships: National Trust for Historical Preservation

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

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

Pennoni

DAVID H. HOHMAN, R.L.A., ASLA, LEED AP

EDUCATION

B.S./West Virginia University/Landscape Architecture *Summa Cum Laude*/1990

Certified Master Gardener

Continuing Education:
- Green Roof Design
- AutoCAD Training
- Rainbird Maxicom Irrigation School
- Toro Irrigation Design School
- Storm Water Management Seminars
- Playground Safety Seminars
- Safe Streetscape Design Seminars

PROFESSIONAL REGISTRATION/CERTIFICATIONS

Registered Landscape Architect
PA, WV, OH
LEED Accredited Professional

PROFESSIONAL AFFILIATIONS/ HONORS/AWARDS

American Society of Landscape Architects
"Stormwater Best Management Practices Award, Green Roof Design" from the Philadelphia Water Dept.
"Quality Concrete Award" presented by The National Concrete Council
"Decorative and Durable Design in Concrete Paving", presented by The Portland Cement Association.
"Top Job Gold Award" presented by The National Ornamental and Miscellaneous Metals Association
West Virginia ASLA Awards Jury, 1999
ASLA Chapter Annual Meeting Executive Committee Member, 1999
ASLA Merit Award, 1986- 1990
Sigma Lambda Alpha Honor Society Vice-President 1989-1990, WVU
Gamma Sigma Delta National Agricultural Honor Society
Phi Kappa Phi National Society
Golden Key National Honor Society

EXPERIENCE SUMMARY

Mr. Hohman is a Senior Landscape Architect in the Civil/Site/LA Technology with more than 18 years experience. He has been responsible for all phases of work from conceptual design through construction observation and implementation including project management. He has been instrumental in the design of many collegiate projects, corporate facilities, athletic facilities, and has vast experience in botanical garden design and construction. Mr. Hohman's specializations include detailed planting design, display fountain design and construction, and irrigation systems design.

REPRESENTATIVE PROJECT EXPERIENCE

CAMPUS PLANNING AND SITE DESIGN

Glessner Housing Development Master Plan, Wheeling, WV
Project Manager and Designer of the housing master plan on the 150 acre parcel. The housing design included 24 townhomes, 75 single-family homes with lot sizes from ¾ to 2 ½ acres. A new entry road/entry feature was designed; a separate road will access a model home and an existing barn that will be renovated into a Maintenance Center and Home Owners Association Complex. An existing lake will be retained and improved to be a central focal point with boating, picnicking and fishing opportunities; a nature/walking trail will connect all areas of the development.

Oglebay Hall Renovation, West Virginia University, Morgantown, WV
Project Manager and Designer for the site surrounding the renovations of the 54,816 SF Oglebay Hall and 20,000 SF addition. This building, on the National Historic Register, was remodeled to house the university's growing Forensic Science curriculum. Work included an entry plaza, pedestrian circulation, accessible parking, walls, steps, railings and landscape design.

Student Housing, California University of Pennsylvania, California, PA
Project Manager and Designer for the 18 acre renovation to the university's student housing. Planning involved the demolition of all six existing residence hall and their replacement with four new structures with apartment-style living options. Phase One construction included the construction of three new residence halls, parking for 350 cars, creating of a new band practice/recreation field, pedestrian circulation and outdoor study areas, pedestrian and vehicular lighting, multi-use basketball/tennis courts, sand volley ball court, extensive planting design, building signage and sculpture placement.

Pennoni

M. DAMON WEISS, P.E., CPESC, CPSWQ

EDUCATION

MS/Projected Graduation 2008/Carnegie Mellon University/Advanced Infrastructure Systems in Civil Engineering

BS/1997/University of Virginia/Civil Engineering

PROFESSIONAL REGISTRATION/CERTIFICATIONS

Registered Professional Engineer / PA 2004

Certified Professional in Erosion and Sedimentation Control (CPESC), 2007

Certified Professional in Storm Water Quality (CPSWQ), 2008

PROFESSIONAL AFFILIATIONS/ HONORS/AWARDS

American Society of Civil Engineers, 2002

American Society of Highway Engineers, 2005

Environmental and Water Resources Institute, 2005

Green Building Alliance, 2007

3 Rivers Wet Weather, Stormwater Advisory Panel, Member, 2007

EXPERIENCE SUMMARY

Michael Damon Weiss, P.E. has over 10 years of experience in civil engineering. His current job responsibilities are as a Project Engineer with the Transportation Division of the Pennoni Associates, Pittsburgh Office. Mr. Weiss has a strong background in land development design, transportation, stormwater management, erosion and sedimentation control, structural engineering and planning / administration of municipal improvement projects. Mr. Weiss has extensive experience in interagency coordination including previous work with the PaDEP, County Conservation Districts and the Army Corps of Engineers.

REPRESENTATIVE PROJECT EXPERIENCE

CIVIL ENGINEERING

Claysville Town Houses, Washington County, Pennsylvania
Project Engineer for the site layout and design of a proposed 18-unit town house complex and associated utilities and other improvements in Claysville Borough, Pennsylvania. Responsibilities included site design, stormwater management, NPDES and E&S permitting, coordination and generation of construction drawings.

Site Improvements at Watson Institute, Leet Township, Allegheny County, Pennsylvania
This project consist of the addition of a one-story 7,500 square foot addition to the existing Watson Institute building and associated site improvements, including parking lot modifications, sanitary and water utility relocation and storm water management. Responsibilities as Project Engineer include new utility design and coordination, drainage design, E&S and NPDES permitting, storm water management and the generation of associated plans, specifications and reports

51-I-376, 53B, Mon-Fayette Expressway, Allegheny County, Pennsylvania
The Mon/Fayette Expressway Project from PA Route 51 to Interstate 376 would extend the Mon/Fayette system north from Route 51 in Jefferson Hills in southeastern Allegheny County to two interchanges with the Parkway East (I-376). The ongoing project includes 3.7 miles of new interstate expressway, new interchange and local connector roads, twelve new bridges, culverts, and other associates improvements. Responsibilities as Staff Engineer includes culvert and closed system drainage design, local road alignment studies and preparation of plans and presentation material for regular design team meetings.

Pennoni

TODD M. MORRIS, P.E.
ASSOCIATE VICE PRESIDENT

EDUCATION
B.S./Pennsylvania State University/Civil Engineering/1984

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS
Registered Professional Engineer/PA/ PE054410E
Registered Professional Engineer/NJ/ 24GE04037200
Registered Professional Engineer/MD/ 29998
Registered Professional Engineer/WV/ 013969

PROFESSIONAL AFFILIATIONS
American Society of Civil Engineers (ASCE), Member, Transportation Committee
American Society of Highway Engineers (ASHE), 2nd Vice President, Harrisburg Section Board Member
West Shore Chamber of Commerce, Member, Transportation Committee, Education Committee, Economic Development Committee
American Council of Engineering Companies (ACEC), Pa Section board member, Committee Chairman, and member of two committees

EXPERIENCE SUMMARY

With more than 24 years of Transportation Infrastructure experience, Mr. Morris is currently functioning as the Regional Transportation Manager for Pennoni Associates in Central and Western Pennsylvania, Ohio, and West Virginia. In this capacity, Mr. Morris is responsible for business development, supervision of the transportation design staff, client coordination, directing that QA/QC of design work is being completed and documented, and monitoring of project and office budgets and schedules.

REPRESENTATIVE PROJECT EXPERIENCE

West Virginia Division of Highways (WVDOH), District 3-0, Appalachian Corridor D, Wood County, WV
Project Manager responsible for this project, which included the design of approximately two miles of a new expressway, including an interchange and two local road crossings. It was necessary to develop several alternatives in an effort to satisfy the needs of the WVDOH, local land developers, and the local residents. Mr. Morris was responsible for and monitored all aspects of the project from the initial geometry development to the final plan submission, estimates, and specifications. Mr. Morris was also responsible for coordination with Benatec's WV office two adjacent consultants, and the consultant responsible for managing the contract for the WVDOH.

PTC, Mon/Fayette Expressway Project between Uniontown to Brownsville, Fayette and Washington Counties, PA
Mr. Morris provided project coordination for the preliminary engineering design. This work included the preliminary engineering of approximately 15 miles of new construction, several interchanges, and local roadways that were incorporated in the Final Environmental Impact Statement. This project required extensive coordination with the Turnpike Authority, Michael Baker Engineering, District 12-0, and several subconsultants, in order to accommodate the various environmental, historical, and cultural constraints associated with the project. The objective of this project was the development of preliminary geometry for two possible alternatives that satisfied the project needs, the environmental objectives and provided an economical alignment that satisfied minimum engineering requirements.

Consultants

The design team that we propose for your project is one that has worked together on numerous occasions to successfully meet the needs of our healthcare clients.

In this section, we have included descriptions of three firms, Tower Engineering (MEP Engineering Design), Atlantic Engineering (Structural Engineering) and Pennoni Associates (Site, Civil), along with a list of their similar projects.

Along with these consultants, VEBH will provide the resources necessary to identify and design the modern efficiencies sought for this project.

Each of these consulting firms will provide services for the duration of the project, including during the construction phase(s).

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 ductwork 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.

TOWER ENGINEERING

115 Evergreen Heights Drive
Suite 400
Pittsburgh, Pennsylvania 15229
Phone (412)931-8888
Fax (412)939-2525

Tower Engineering

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

Our Design Experience

- Agricultural & Science Buildings
- Airport Terminals & Hangers
- Athletic Facilities & Stadiums
- Auditoriums & Theaters
- Call Centers
- Classrooms
- Clean Rooms & Special Environments
- Data Centers
- 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 2008, 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.

Tower Engineering has a long history of providing engineering services in West Virginia. For more than five decades, educational, commercial and institutional facilities owners have depended on us to engineer mechanical and electrical systems which are effective, as well as efficient.

During the past two years alone, 34% of our project workload has been in West Virginia. Currently, Tower Engineering is providing mechanical and electrical systems engineering for boards of education in 11counties, as well as for West Virginia University, Fairmont State University, the West Virginia Hi-Tech Consortium, Rocket Center, and Canaan Valley Institute. We recently completed projects at Glenville State College and the City of Fairmont.

TOWER
ENGINEERING

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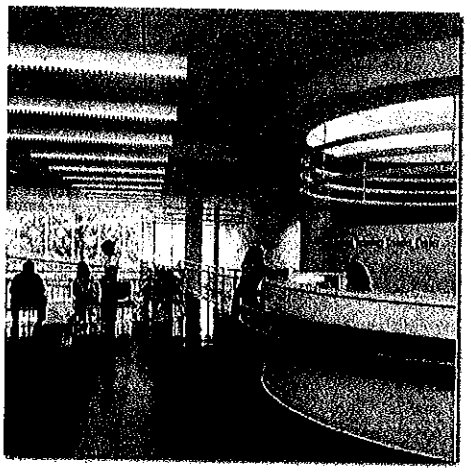
Phone (412)931-8888
Fax (412)939-2525



Recent Projects in West Virginia Have Included:

- Airport Renovations
- Research/Laboratories
- K-12 Schools
- Commercial Offices
- Community Centers
- Retail Buildings
- Stadiums & Athletic Buildings
- Military Training Facilities
- Nursing Homes
- Light Industrial and Warehouses

Engineering West Virginia

Felician Sisters' Motherhouse
Coraopolis, Pennsylvania

- 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.

The Project Team has achieved a LEED™ Gold rating.

LEED Project Experience:

- Felician Sisters Motherhouse (Gold)
- Three Rivers Rowing Association Boat Storage & Maintenance Building (Certified)
- Carnegie Mellon University Henderson House Renovations (Silver)
- Carnegie Mellon University Posner Conference Center Rare Books Room (Certified)
- Pittsburgh Children's Museum Renovation & Expansion (Silver)
- Regional Learning Alliance at Cranberry Woods (Silver)
- Berkeley County Board of Education New Spring Mills Primary School (Silver)
- Canaan Valley Institute New Headquarters/Education Building (Certified)
- Department of Energy Morgantown Record Storage (Gold)

The following projects were designed in accordance with the LEED rating system, but ultimately did not pursue a LEED certification:

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

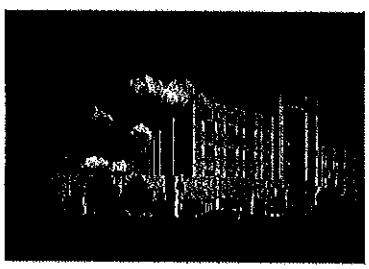
Tower Engineering has provided mechanical and electrical consulting engineering services for numerous Government-owned facilities. With seven decades of experience, our firm knows the importance of meeting the client's needs without exceeding the project's budget.

Thoroughly familiar with current government and military standards, our firm has provided engineering services for the following government-owned facilities:

Federal Government

William S. Moorhead Federal Office Building, PA
Department of Labor Job Corps Center, PA
Butler VA Hospital, PA
Department of Labor Job Corps Medical Center, PA.
Army Corps of Engineers Lab, PA
Army Corps of Engineers Neville Island, PA
National Guard Readiness Center Connellsville, PA
National Guard Stryker Center Cambridge Springs, PA
National Guard Fairmont Readiness Center, WV
Army Reserve Center Jane Lew, WV
Army Reserve Center Clarksburg, WV
IRS Liberty Center Tenant Fitup, PA
INS Application Support Center, PA
VA Medical Center Pittsburgh, PA (multiple)
Department of Energy Records Storage, WV
Department of Agriculture Lab, PA
National Geospace Agency St. Louis, MO

New Fairmont, WV Parking Garage



Mt. Lebanon, PA Transportation Center

PA Capitol Welcome Center

State Government

State Police Building, PA
Capitol Building Welcome Center, PA
Tygart Lake State Park Lodge Addition, WV
Twin Falls Resort State Park Addition, WV
DER Regional Offices, PA
DER Lab Renovation, PA
Ebensburg Center HVAC Renovation, PA
Buckingman Protection Custody Facility, PA
HRS Computer Room, PA
Capitol Science & Cultural Center, WV
Scotland School for Veterans Children, PA

TOWER ENGINEERING

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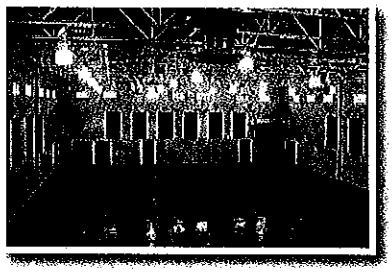
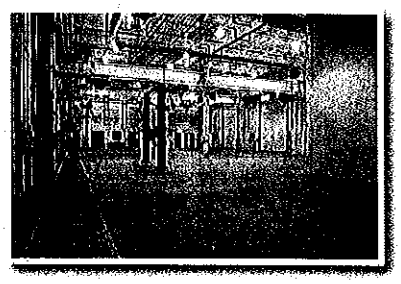
Government-Owned Facilities

Project Example

Pennsylvania Army National Guard
Stryker Brigade Combat Team
Readiness Center & OMS
Cambridge Springs, Pennsylvania





Tower Engineering provided engineering services for the design/build of a new 69,900 s.f. Readiness Center and 19,800 s.f. Organizational Maintenance Shop (OMS) for the Stryker Brigade Combat Team. These facilities will provide spaces for training and housing of troops, as well as storage and maintenance of military vehicles and equipment. The center was constructed to replace outdated armories in Erie, Corry and Meadville.

Sustainable design features were included in the design and construction of these facilities, with a goal of a SPiRiT rating of Gold. Design requirements included Anti-Terrorism/Force Protection (AT/FP).

Construction costs were $19.6 million. This project was completed in 2008.

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Facilities for the Armed Forces

Project Example

West Virginia Army National Guard
Armed Forces Reserve Center
Fairmont, West Virginia

Tower Engineering is currently providing engineering services for the construction of a new $22 million multipurpose facility to be located in East Fairmont. At 65,000 s.f., the facility will feature an assembly hall, classroom and distance learning center. Other major components include a kitchen/dining area, toilets/showers, administrative, training and storage spaces, and vehicle maintenance.

The project also includes a new multipurpose center that will also serve the city and county as a special events and convention facility.

This project is currently in design.

Facilities for the Armed Forces

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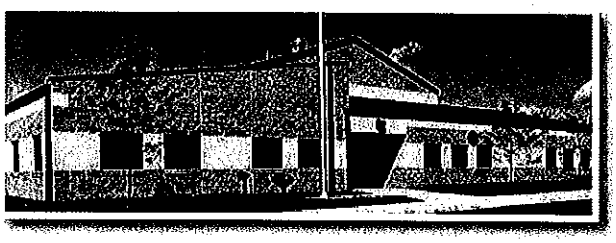
Project Example

U.S. Army Reserve Centers
Jane Lew, West Virginia and
Clarksburg, West Virginia



Tower Engineering provided engineering services for the U.S. Army Reserve Training Center in Jane Lew, West Virginia. The Center provides a suitable facility for weekend and other intermittent training exercises of the Army Reserve. At 7,400 square feet, the facility includes offices, a large Assembly area, a full service Kitchen, Arms Storage, and supporting storage and mechanical areas.

A separate Organizational Maintenance Shop Building (OMS) provides an enclosed garage area for maintenance operations on the various vehicles, an office, and tools and parts storage.

Tower Engineering also provided mechanical and electrical consulting engineering services for the construction of an 16,120 s.f. Training Building and 10,168 s.f. Organizational Maintenance Shop at the U.S. Army Reserve Center in Clarksburg, West Virginia.

These facilities, as well as the buildings at Jane Lew, West Virginia, were designed in accordance with the U.S. Army Corps of Engineers' "Architectural and Engineering Instructions, Design Criteria."

Facilities for the Armed Forces

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Tower Engineering is committed to providing state-of-the-art HVAC, electrical, plumbing and fire protection systems for housing facilities - not only providing comfort and safety, but also energy efficiency and maintenance friendliness.

Tower Engineering has designed numerous residential facilities - from student apartments housing 500 students to multi-family properties. We have used many innovative design techniques to enhance the cost savings to the owners, while also being responsive to the concerns and needs of the residents.

Our expertise in housing includes:

- Single-Family Residences
- Multi-Family Properties
- Housing for Senior Adults - Multi-Family and Cottages
- Reuse of Historic Buildings and Industrial Sites
- Student Housing Including Dormitories & Apartments
- Dormitories for Public and Private Entities
- Hotels, Motels, Lodges

Tower Engineering has provided engineering services for multiple housing projects, ranging from single-family residences to upscale apartments such as the H.J. Heinz Lofts (left) and the Slippery Rock Student Apartment Complex (below).

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Residential Housing

Our project experience includes the following representative projects:

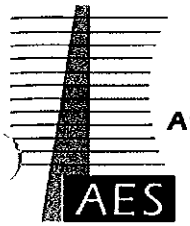
Student Dormitories & Apartments
Carnegie Mellon University Henderson House & Welch Hall
Mercyhurst College New Dormitory Building
Saint Francis University Christian Hall Residence/Conference Center
Slippery Rock University Apartment-Style Residence Complex
University of Pittsburgh Upper Campus Housing Phases I and II
University of Pittsburgh Fraternity Houses 1-8 Renovations
Washington & Jefferson University Residence Buildings (2)
Waynesburg University New Dormitory Building
West Virginia University New Downtown Housing

Apartments, Condominiums and Communities
Collington Life Care Retirement Community Cottages & Apartments
H.J. Heinz Lofts
Kings Grant Condos Renovation
Tamarack Club, Holiday Valley Condominium Building
New Sewickley Condo Buildings (3)
Forest Hills Senior Apartments
Longwood at Oakmont Independent Living Apartment Building
Southwinds at Lake Tahoe, Seven Springs Condominium Buildings (7)

Multi-Family & Subsidized Housing
Housing Authority of the City of Pittsburgh, Multiple Projects
Housing Authority of Lawrence County
McKeesport Housing Authority, Multiple Projects
Munhall Homesteads Housing
Northside Senior Housing, Inc.
Second Baptist Senior Housing, Inc.
Westmoreland Housing Authority, Multiple Projects
Ebensburg Center Care Center for the Mentally Retarded

Other Dormitories for Public & Private Entities
Abraxas Dormitories
Clelian Heights Boys' Residence
Felician Sisters Motherhouse
Glade Run Lutheran Services Treatment Residential Center
Renewal Treatment Center, Multiple Projects

Hotels, Motels & Lodges
Best Western Hotel
Nittany Lion Inn, Multiple Projects
Twin Falls Resort Lodge Expansion



Atlantic Engineering Services

ATLANTIC ENGINEERING SERVICES
FIRM OVERVIEW

Atlantic Engineering Services, with offices strategically located in Pittsburgh, Jacksonville and Washington, D.C., provides consulting structural engineering services to the entire eastern portion of the U.S. including Boston, Minneapolis, Philadelphia, Cleveland, Norfolk, Charlotte, Birmingham, Orlando and Miami.

The organization's clients benefit from proactive structural engineers dedicated to searching out optimal solutions. The interaction of these engineers with other disciplines along with regional experience allows for enhanced design economies. Continuous interaction between designers and trained field observers helps assure that the design intent can be quickly understood and properly executed.

The practice is founded on the stable principals of synergy, creativity and timeliness. This successful philosophy is exemplified in more than 7,500 completed projects with a total constructed value of more than $10 billion. The projects constructed over the past 38 years have been as high as 30 stories with a construction cost of more than $120 million. Our experience includes hospitals and other medical facilities, laboratories, facilities of all kinds at institutions of higher learning, corporate offices and corporation headquarters, retail and warehouse facilities, distribution centers, telecommunications facilities, churches, recreational facilities, hotels and dormitories, residential structures of all types, and a range of military projects from housing replacement to carrier support facilities and airfield control.

Of specialized projects, our military work includes BEQs for naval stations at Brunswick, Jacksonville, Norfolk, and Newport. Our work also includes more than 7,000 units of housing along with various neighborhood centers at Forts Meade, Bragg, Riley and Polk. We have designed aerial delivery facilities, air traffic control facilities at Barksdale and Hunter, and numerous armory and supply/distribution facilities at naval air stations and naval facilities.

One of our areas of special expertise is the design of military and federal facilities to comply with requirements for blast design including DOD provisions for Force Protection and the Progressive Collapse. Some of our projects incorporating design issues these include work at Walter Reed Army Hospital, the FBI's Field Offices in Pittsburgh, PA, Aberdeen Proving Grounds and at numerous army and navy facilities throughout the eastern United States for both the Corps of Engineers and for Design/Build contractors.

AES uses state-of-the-art technology to increase the firm's ability to creatively engineer structural solutions for building designs. Our analytical productivity and project delivery is further increased by the use of data transmission and project collaboration opportunities on the Internet. Please take a moment to visit our web site at **www.atlanticengineering.com.**

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

"Bringing architectural visions to life"

Atlantic Engineering Services

AES

PROJECTS INVOLVING ATFP DESIGN

Atlantic Engineering Services has significant design experience with Anti-Terrorism/Force Protection requirements and design. Our work for the United States Navy, the Army, the Corps of Engineers and other government agencies has required us to consider, on different occasions design issues ranging from the DoD requirements for Anti-Terrorism design, to project specific Force Protection design and even specialized design to provide progressive collapse avoidance.

FBI Field Office for Pittsburgh: This steel framed structure with auger-cast pile foundations incorporates several aspects of ATFP design. The exterior wall system is constructed with precast wall panels spanning between columns to improved resistance to blast. Special perimeter barriers establish acceptable stand-off distances to reduce blast effects. The design, which features composite floor slabs to provide capacity for heavy filing areas, was also design for future vertical expansion.

Renovations to Building 38 at Walter Reed Army Medical Center: This historic structure with original framing of wood and brick has been re-designed so that its completed renovation will be Force Protection compliant for blast criteria for threats within a 10 meter stand-off distance. The design incorporates 18 inch reinforced concrete blast walls and significant steel reinforcement along two facades of the structure to shield occupants and prevent collapse of floors and roof in the event of an attempted attack.

Newport Naval Academy Prep School Dormitory at Newport Naval Station: This three story steel framed dormitory structure employs continuous floor-level and roof-level bands of steel spandrel beams around the majority of the building's perimeter, as well as augmented floor slab and floor system design along the perimeter, to provide progressive collapse avoidance and meet Anti-Terrorism requirements for a three story student dormitory. Exterior walls and systems were selected for improved resistance to blast.

Additional projects which involve ATFP standards and requirements include:

- Bachelor Enlisted Quarters and Personnel Support Storage, Naval Submarine Base, Kings Bay, GA
- Florida Air National Guard Munitions Maintenance and Storage Facility, Jacksonville, FL
- B.E.Q. and E.M. Dining Facility, Naval Coastal Systems Station, Panama City, FL
- Bachelor Officers Quarters, Naval Air Station, Jacksonville, FL
- Aerial Delivery Facility, Moody Air Force Base, Valdosta, GA
- Rescue Squadron Beddown Facility, Moody Air Force Base, Valdosta, GA
- Passenger Processing Facility, Fort Benning, GA
- Departure/Arrival Airfield Control Group (DAACG) Operations Facility, Hunter Army Airfield, GA

Atlantic Engineering Services

AES

DORMITORY PROJECTS

	Constructed Value
University of Pittsburgh – Upper Campus Housing Phase II; Pittsburgh, PA	**$ 25,000,000**

This 11-story housing project completes a two-phase addition to Pitt's Upper Campus housing. The building is a masonry bearing and precast concrete plank structure founded on a caisson foundation. Half of the building's caissons bear over an abandoned coal mine which was grouted to alleviate voids. This 513-bed building opened, on schedule, in time for the start of the 2006 fall semester.

University of South Florida, Student Housing; Tampa, FL **$ 23,000,000**

The new University of South Florida Housing complex, located in Tampa, Florida, is a 245,000 square foot complex featuring seven 3- and 4-story residence hall buildings and five single-story community buildings. Originally the plan for this design/build project was to construct with load bearing masonry walls; however, in order to meet the aggressive schedule, it was decided to replace the majority of the masonry walls with autoclaved aerated concrete load bearing wall panels. The elevator shaft walls and stairwell walls were to remain masonry. The elevated floor system consists of hollow core concrete planks plus structural topping.

Carnegie Mellon University First Year Residence Hall; Pittsburgh, PA **$ 11,000,000**

The 6-story, 259-bed First Year Residence Hall is located on Carnegie Mellon's campus. The superstructure is comprised of 6-inch thick precast hollow core plank supported by masonry bearing walls. Lateral resistance for wind and seismic loading is achieved by masonry shear walls. Caissons and grade beams were used for foundations due to the varying rock elevation at the site. For basement floor construction, some rock removal was required, but floor-to-floor heights were optimized to minimize the rock excavation quantity.

Wheeling Jesuit College Dormitory; Wheeling, WV **$ 9,000,000**

This 9-story, 288-bed facility serves as the major dormitory for the campus of Wheeling Jesuit College. It is a reinforced masonry structure with precast plank floors and roof. The cast in place concrete building foundations terrace into a steeply sloping site which drops two stories across the 60-foot width of the structure. The design finds opportunities in this tough site, creating additional building space in the rock benches for campus service offices and public spaces. Non-load bearing walls are constructed with steel studs. The design provides for state-of-the-art fiber optic network connection with a system of chases and access panels integrated into the masonry walls.

New College Residence Hall - Phases I and II **$ 6,000,000**

New College Residence Hall is a 60,000 square foot student housing complex consisting of two adjoining residence hall buildings. The project is located in Sarasota, Florida. The two 3-story buildings have load bearing masonry walls, hollow core concrete plank floors and a steel framed roof. The open design of the corridors and stairwells is a premiere feature for these buildings. The corner stairwell contains a skylight pyramid which is framed out using cantilevered concrete beams.

Pennoni

FIRM PROFILE

Pennoni Associates Inc., established in 1966, is a multi-disciplined consulting engineering firm which provides personalized services and solutions to meet the needs of our diverse clients. Pennoni employs approximately 800 professional, technical, and administrative personnel in 20 offices throughout **Pennsylvania, New Jersey, Delaware, New England, Maryland, and New York.** Services are provided to local, state, and federal governments, private, commercial, industrial, and construction clients as well as to other professional firms.

Pennoni Associates' Technologies include the following disciplines:

- Environmental
- Geotechnical
- Inspection & Testing
- Landscape Architecture
- MEP Engineering
- Municipal
- Planning
- Site Design
- Structural
- Surveying
- Transportation
- Water & Wastewater

We keep abreast of rapidly changing technology that impacts our practice and apply this knowledge to assist clients in meeting their specific project requirements.

GWSM
LANDSCAPE ARCHITECTS
Division of
Pennoni
PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

www.pennoni.com

RECREATION PLANNING
CHEAT LAKE PARK & TRAIL
Cheat Lake, WV

Client:
Michael Baker, Jr. Inc.
4301 Dutch Ridge Road
Beaver, PA 15009

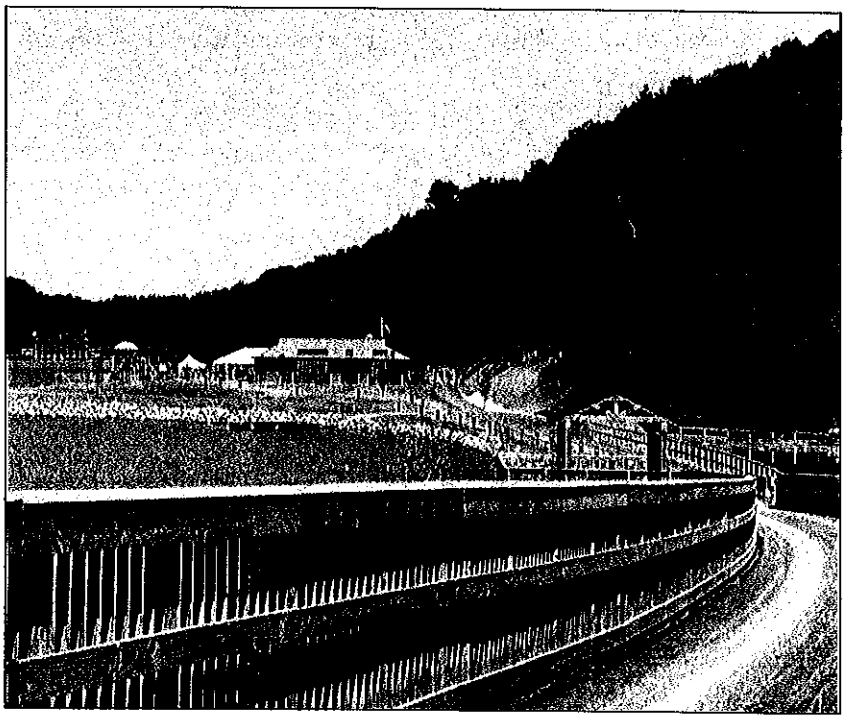
Contact:
Gerry Lang - Allegheny Energy
(724) 838-6750

Period of Performance:
1998 to 2000

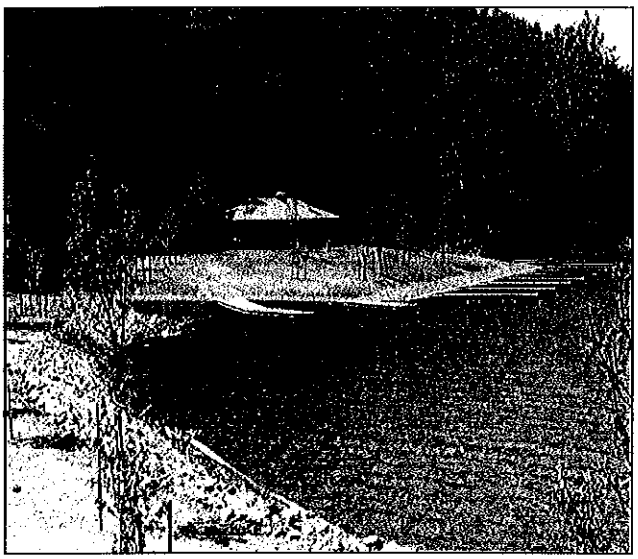
Construction Cost:
$3,000,000

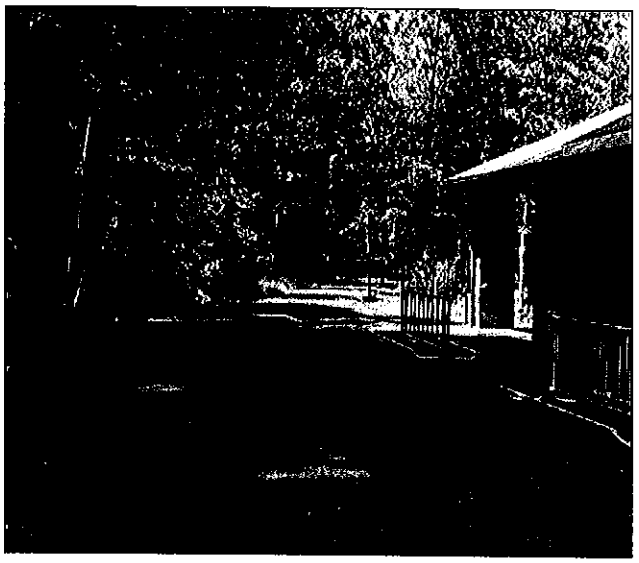
Summary:

- Picnic areas and shelters
- 3-mile hiking/biking trail
- Playground
- Day-use boat docking facilities
- Fishing jetties
- Canoe launches/docks
- Parking areas
- Landscape design



As a condition for federal relicensing to generate hydroelectricity at Cheat Lake, WV, Allegheny Energy was required to provide public recreation opportunities at the lake. A conceptual recreational development plan was prepared for Allegheny Energy and a detailed site design was provided for construction of the facilities.





Pennoni

RECREATION PLANNING
SPORTS & RECREATION COMPLEX MASTER SITE PLAN
Follansbee, Brooke County, WV

Client:
City of Follansbee
872 Main Street
P.O. Box 606
Follansbee, WV 26037

Contact:
John DeStefano, Jr.
City Manager
(304) 527-1330

Period of Performance:
2007 to 2008

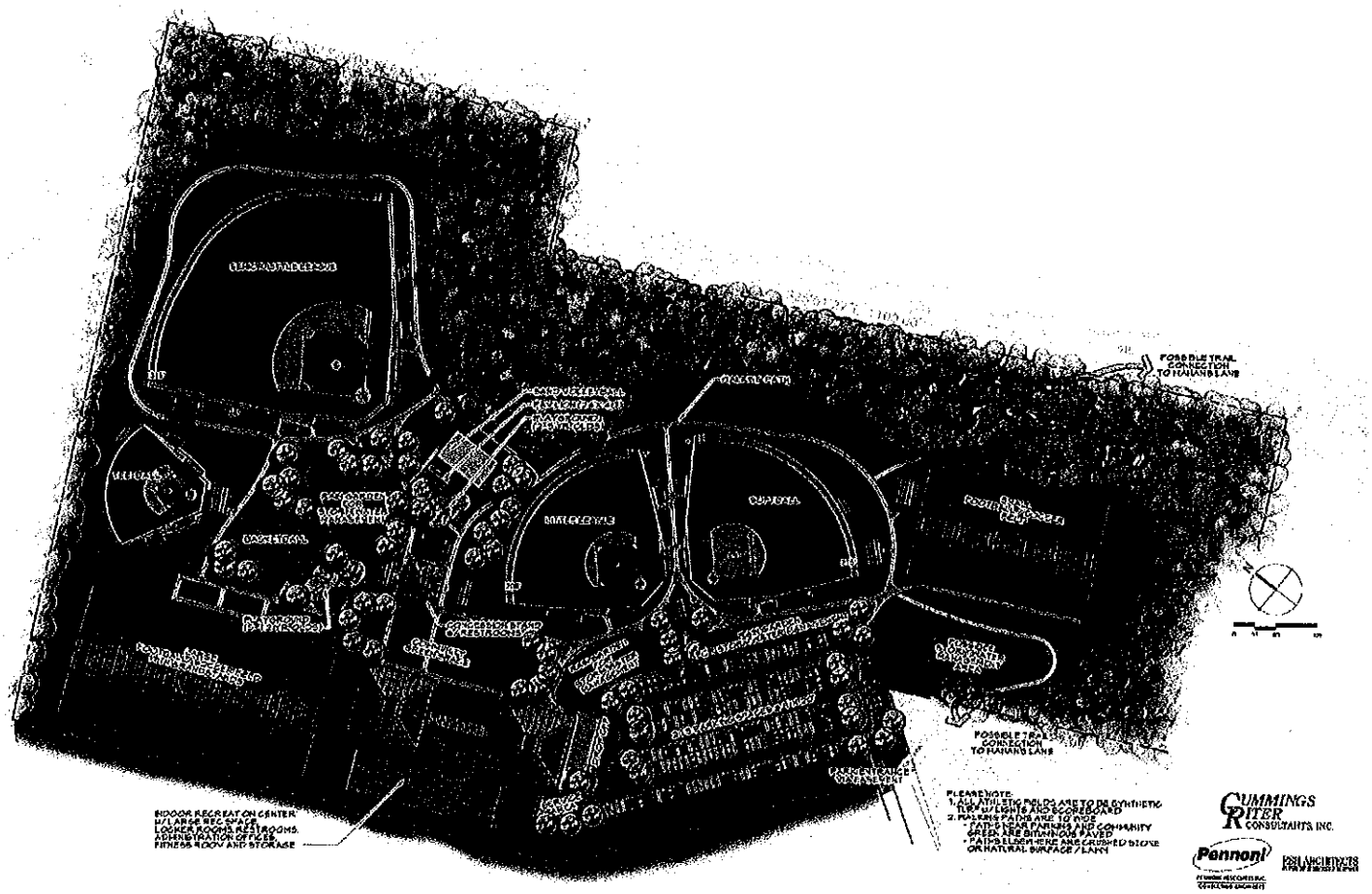
Construction Cost:
Estimated $13,700,000

The City of Follansbee needed to relocate the community's sports and recreation activities from its existing and inadequate fields to a new expanded sports and recreation complex to meet the needs of the community. The City was able to acquire an undeveloped 24 acre site and potential additional 8 acres for consideration in the master site plan.

Pennoni provided site inventory & analysis, facilitation of public input meetings, site planning and design, and collaboration in the development of implementation priorities & phasing.

The master site plan proposes new fields for senior little league, little league, tee ball, softball, large football/soccer field, small football/soccer field, parking, lighting, basketball court, sand volleyball, playgrounds, pavilions, a trail system with connectivity to the surrounding community and an indoor recreation center with administration offices, multi-use court, concessions and restrooms.

The City of Follansbee is successfully using the master site plan to pursue federal and local funding for the implementation of the proposed improvements.



Pennoni

PROFESSIONAL ENGINEERING SERVICES
United States Military Academy Preparatory School
West Point, New York

Client:
Ewing Cole
100 North 6th Street
Philadelphia, PA 19106-1590

Contact:
John Capelli, AIA
Principal
(215) 625-4626

Period of Performance:
2007-present

Construction Cost
$250,000,000

Pennoni Fee:
$1,200,000 (approximately)

Size of Project
500,000 square foot building

Preparation of a 60% Design/build request for proposal initiative for a new preparatory school and relocated fleet maintenance center at the United States Military Academy in West Point, NY. Proposed improvements included educational, dining and barracks buildings, 3 artificial turf athletic fields, parking areas and roadways located over a 25 acre site. Oversee analysis of parking, landscaping, storm water management and lighting requirements and submitted conceptual site plans to the client. Prepared detailed demolition, site, grading, soil erosion and utility plans and specifications for use in construction and obtaining regulatory permits. Responsible for Client Management, Quality Assurance and Quality Control.