



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

# Request for Quotation

RFO NUMBER:  
 DNR209057

PAGE:  
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
 FRANK WHITTAKER  
 304-558-2316

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF NATURAL RESOURCES  
 PARKS & RECREATION SECTION  
 BUILDING 3, ROOM 719  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305-0662 304-558-2775

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/06/2008				

BID OPENING DATE: 12/09/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
<p>ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL</p> <p>EXPRESSION OF INTEREST</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION IF NATURAL RESOURCES, IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR LODGE EXPANSION AND PARK IMPROVEMENTS AT CACAPON RESORT STATE PARK LOCATED IN BERKELEY SPRINGS WV, PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WEST VIRGINIA PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIS EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS NOVEMBER 21, 2008 AT 3:00 PM ALL TECHNICAL QUESTIONS RECEIVED, IF ANY WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE.</p> <p>QUESTIONS CONCERNING THE PROCESS BY WHICH A VENDOR MAY SUBMIT AN EXPRESSION OF INTEREST TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING DATE AND TIME</p> <p>EXHIBIT 10</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE 	TELEPHONE 304-296-8216	DATE 12/08/08
TITLE President and COO	FEIN 55-0516286	ADDRESS CHANGES TO BE NOTED ABOVE

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



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11/06/2008				

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LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC		
				ADDENDUM NOS.:		
		X		NO. 1		
				NO. 2		
				NO. 3		
				NO. 4		
				NO. 5		
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY 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.</p> <p>..... SIGNATURE</p> <p>Alpha Associates, Incorporated      .....</p> <p>..... COMPANY</p> <p>December 8, 2008      .....</p> <p>..... DATE</p> <p>REV 11/96</p>						

BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY VOID.

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<p>CALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER</p> <p>REV 1/2005</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            BUILDING 15            2019 WASHINGTON STREET, EAST            CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 44</p> <p>REQ. NO : DNR209057</p> <p>BID OPENING DATE: 12/09/08</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:            304-296-8245</p> <p>-----</p> <p>PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT Richard A. Colebank</p>						

SIGNATURE		SEE REVERSE SIDE FOR TERMS AND CONDITIONS	
TITLE President and COO	FEIN 55-0516286	TELEPHONE 304-296-8216	DATE 12/08/08

ADDRESS CHANGES TO BE NOTED ABOVE

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11/06/2008				

BID OPENING DATE: 12/09/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UQP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
CONCERNING THIS QUOTE: Richard A. Colebank -----  ***** THIS IS THE END OF RFQ DNR209057 ***** TOTAL: _____						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *[Signature]* TELEPHONE 304-296-8216 DATE 12/08/08

TITLE President and COO FEIN 55-0516286 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:**

*West Virginia Code* §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A 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. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

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

Vendor's Name: Alpha Associates, Incorporated

Authorized Signature:  Date: 12-08-08



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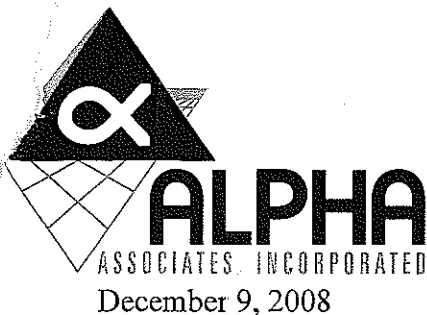
BID OPENING DATE: 12/09/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 1 *****						
THIS ADDENDUM IS ISSUED TO PROVIDE THE ATTACHED VENDOR TECHNICAL QUESTIONS, AND AGENCY RESPONSES.						
BID OPENING DATE AND TIME REMAIN: 12/09/08 AT 1:30 PM						
0001	1	LS		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL						
***** THIS IS THE END OF RFQ DNR209057 ***** TOTAL:						

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ASSOCIATES, INCORPORATED  
December 9, 2008

ARCHITECTS • ENGINEERS • SURVEYORS

Purchasing Division  
2019 Washington Street, East  
P.O. Box 50130  
Charleston, WV 25305

Attn: Mr. Frank Whittaker

**Re: DNR209057 – Expression of Interest  
CaCapon Resort State park**

Dear Mr. Whittaker,

Alpha Associates, Incorporated is pleased to submit this expression of interest to provide architectural and engineering design services for the lodge expansion and park improvements at CaCapon Resort State Park located in Berkeley Springs, West Virginia. We have visited the site to gain a better understanding of the project, and we are confident that our experience and expertise match the needs of the Park. Alpha has provided services for the Division of Natural Resources in the past and is excited to continue to build upon that relationship.

Alpha has compiled a team with all needed expertise to successfully complete your project. Since 1969, Alpha has provided architectural and engineering services to various clients throughout West Virginia. As you will see from the attached project sheets, Alpha has recent, relevant experience with projects similar to yours.

Alpha will put our knowledge and experience to work for you to develop a completed project that will exceed your expectations and be a revenue producing entity. *We are ready to begin work immediately and make your project a priority.* Should you have any questions please contact me at 304-296-8216 x102 or [rcolebank@alphaaec.com](mailto:rcolebank@alphaaec.com). I look forward to hearing from you soon.

Sincerely,

ALPHA ASSOCIATES, INCORPORATED

Richard A. Colebank, PE, PS  
President and COO

RECEIVED

2008 DEC -9 A 10: 38

PURCHASING DIVISION  
STATE OF WV



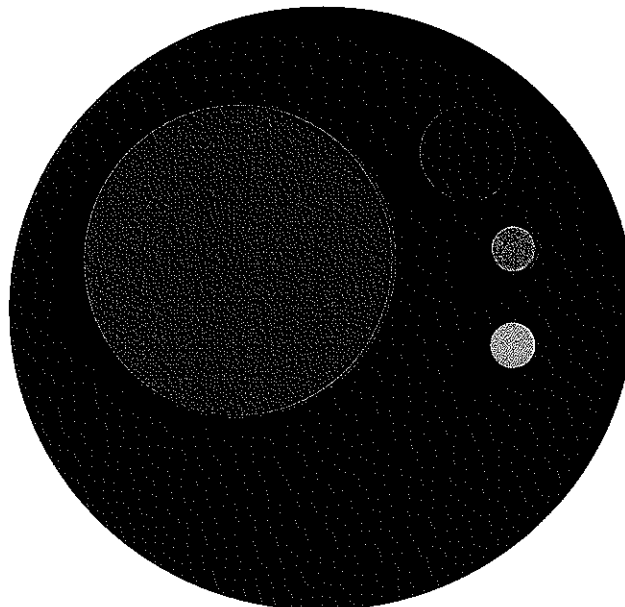
## Alpha Advantage

Alpha Associates, Incorporated

Alpha Associates, Incorporated provides design services throughout West Virginia with over 40 staff members in two offices to serve your needs. Members of our staff are registered architects, professional engineers, LEED accredited professionals, interior and landscape designers, providing design services that include architectural and interior design, civil and structural engineering, as well as, surveying and landscape design

The project at CaCapon Resort State Park stands out for the importance paid to multiple areas of the State Park. Not only improving and adding guest rooms, but also improving infrastructure and support spaces, as well as green spaces. This demonstrates your commitment to creating a destination for visitors to West Virginia. Alpha Associates, Incorporated is very proud to be a West Virginia firm. **“Designing First Impressions”** is a slogan that we believe defines the quality of designs that are created with our staff. More than a slogan, **“Designing First Impressions”** is kept as a priority in our designs. Alpha Associates, Incorporated believes a well designed project creates a positive first impression for visitors to our State. We believe our team will create that positive first impression to new and returning visitors of CaCapon Resort State Park

Your project encompasses a wide range of services, many of which can be accomplished internally at Alpha Associates. When you choose Alpha Associates as your design partner, you benefit from the decades of experience that our staff members bring to it. In this instance, you also benefit from the experts we have gathered to supplement our services. The services provided internally, as well as those provided by consultants can best be understood by the graphic below:





This graphic represents the concept that Alpha Associates, Incorporated will be your single point of contact from the day the contract begins until well after the project is constructed. This provides DNR with a seamless project, while having the necessary expertise to perform all elements of the design. We are very familiar with the DNR, your staff members and we are currently working in two of your parks. You are familiar with the quality of design work we provide, as well as some of the consultants we bring to this project. The consultant relationship is very important to the overall success of your project.

*Each project is unique and Alpha creates unique teams to match the needs of the project. As mentioned previously, design services offered internally include architectural design, interior design, civil and structural engineering, surveying, and landscape design.*

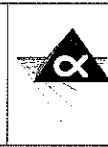


Important to any project are the Mechanical, Electrical and Plumbing Engineering aspects. Alpha Associates, Incorporated has taken a two tier approach to the MEP Engineering. The DNR has previously worked with Miller Engineering on multiple projects, including projects with Alpha Associates. Alpha has chosen Miller Engineering to provide design services related to the indoor swimming pool and surrounding areas. Alpha has worked with many designers on pool projects and Miller Engineering is by far the most qualified to provide pool design services. Miller Engineering not only brings the engineering expertise, but also a background in pool operations and maintenance and this will be vital to the long term operational efficiency of your indoor pool. Miller Engineering will also be providing assistance in coordinating the remainder of the MEP designs with the remaining team members.



Valley Engineering Surveying Planning (VESPP), located in Harrisonburg, Virginia has joined Alpha's team to provide mechanical, electrical, plumbing, and fire protection design services. VESPP was chosen based on several factors, including location, but most importantly their wide range of design experience that will be an asset to the design team. Should any LEED elements be a priority for this project, VESPP brings LEED Accredited Professionals to the design team. We are positive that both Mechanical/Electrical/Plumbing partners will work with Alpha to create systems that will make your guests comfortable and that your facility operations staff will maintain with ease and confidence.





Alpha has chosen two additional consultants to round out the team. Each of the following consultants will be providing specialized design work, but we determined it was necessary to bring additional experts to the team to best serve the needs of the DNR. The current dining facility is limited in space. With the addition of 100 guest rooms, additional kitchen and dining space may be needed. Alpha recently completed several projects that utilized Food Facilities Concepts (FFC) for the design of commercial kitchens, as well as specialized equipment selection. The advantage of utilizing FFC for this design is that your project benefits from the latest trends in commercial kitchen design, as well as recommendations to improve operational efficiencies in your current facility.



Alpha Associates, Incorporated has a very strong civil engineering background. The firm began as a structural engineering firm and soon added civil engineering as a discipline. Alpha has provided civil engineering design for projects near CaCapon State Park, including similar services for The Woods Resort. The Woods Resort project also included utilizing the services of Moody and Associates. Moody and Associates is based in Houston, Pennsylvania and have specialized experience related to water wells. Their familiarity with the area will be an asset to the team. We look forward to continuing our relationship with Moody and Associates and bringing their expertise to your project.

Communication during a project is vital to the overall success. At Alpha Associates, we put a high priority on communicating, not only with clients and contractors, but in your case with your onsite management and park supervisors. Alpha's website, [www.alphaaec.com](http://www.alphaaec.com) is an interactive communication device that can be accessed by the general public to track the design and construction in a high tech manner that may further develop communication support and can also aid in fundraising.

For your project, we will develop a password protected area that has more detailed project information. For example, if your project manager is unable to attend a design meeting, the meeting minutes will be posted to the project website and can be accessed at the convenience of the employee. This communication enhances traditional methods and utilizes technology to create a feeling of involvement and transparency throughout the project.

*In summary, we ask to be able to continue our relationship with the Division of Natural Resources. We have established ourselves as a firm that provides high quality designs and more importantly the highest quality customer service. We are attentive to your needs, we are aware of schedule constraints and we want to continue to prove our effectiveness as a design partner.*



## Firm Profile

Alpha Associates, Incorporated

**Firm Name:** Alpha Associates, Incorporated

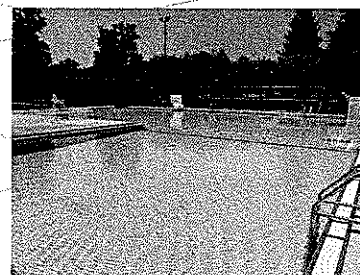
**Corporate Office:** 209 Prairie Avenue  
Morgantown, West Virginia 26501

**Eastern Regional Office:** 535 West King Street  
Martinsburg, West Virginia 25401

**Incorporated:** 1969; Morgantown, West Virginia

**Firm Principals:** Richard A. Colebank, PE, PS; President and COO  
Richard W. Klein, PE, PS; Chairman and CEO  
William A. Atwell, Jr., PE; Senior Vice President  
James A. Davison, AIA; Vice President  
Charles B. Luttrell, PE; Principal  
Steven V. Buchanan, PE, PS; Principal  
Matthew S. Breakey, AIA; Principal  
Charles B. Branch, PE; Principal

**Number of Employees:** 40 Employees



Alpha Associates, Incorporated was established in 1969 and since that time has completed hundreds of projects throughout Morgantown and the state of West Virginia. Alpha's Corporate Office is located in Morgantown with our Eastern Regional Office located in Martinsburg



## **MILLER ENGINEERING, INC.**

### **SUMMARY**

Miller Engineering, Inc. (MEI) provides professional services to facility owners and operators, architects, and contractors throughout West Virginia, Pennsylvania and Western Maryland. MEI services range through all facets of mechanical, electrical, and plumbing design as well as construction administration and project management. We utilize the abilities of designers with many years experience in their area of expertise, teamed with younger designers on a "best resource for the project approach". We also provide project management services at levels ranging from general oversight to complete project delivery through all phases of design and construction. Our personnel have worked in both the private and public sector and are familiar with many methods of project delivery from classic design/bid/build to full design/build with partnering.

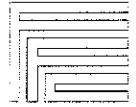
MEI has developed the following philosophy to guide the performance of its services:

- Provide superlative design services to our clients in new construction, renovations, and daily operations.
- Perform work in a timely, accurate, and professional manner.
- Present multiple alternative and solutions whenever possible.
- Work with our clients to control first and life cycle costs.
- Be a technical "sounding board" for our clients in all situations.
- Strive to maintain professional competency through continuing education and training.

MEI utilizes a "practical application" approach to all projects throughout the design process to provide a "well rounded" result. This methodology emphasizes the best overall solution, meeting all the client's needs, instead of just the best technical solution. We believe our small size provides a distinct advantage to our clients and affords us the freedom to easily team with the clients to achieve the overall best possible result.

# FOOD FACILITIES CONCEPTS, INC.

## ■ COMPANY PROFILE



Food Facilities Concepts, Inc specializes in meeting the design requirements of the institutional food service industry. Our design team has experience in planning projects for health care, long-term care, educational, hospitality and industry food service facilities, as well as teaching facilities for culinary schools.

We have expertise in all phases of design - from determining project feasibility through installation management. Food Facilities Concepts, Inc's design projects encompass small and large scale endeavors; from the renovation of small, outdated serving areas, to the total development of expansive food service departments for new multi-unit facilities.

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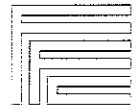
We have made a commitment to provide the best services possible.  
Following are some of the advantages of working with

### **Food Facilities Concepts, Inc.**

- ◆ **Principal Involvement** - Your project will be designed by the principals of our firm. This total personal involvement enables prompt, comprehensive development of your design.
  - ◆ **Quality of Documentation** - We utilize the most advanced food service CAD design programs to produce precise detailed drawings and documentation.
  - ◆ **Experience** - The principals of our firm have more than fifty combined years of food service design experience. As the food service consultant for numerous architects, our staff is also knowledgeable in construction design and coordination requirements.
  - ◆ **Interior Design** - Our interior design department is available to assist your design team in selection and specification of furnishings and interior finishes that will endure their environment.
  - ◆ **Fees** - Our fees are typically fixed, as opposed to a percentage of equipment costs. Many feel that this fee structure helps keep food service equipment costs in line, as our fee is unrelated to the cost of the specified equipment.
-

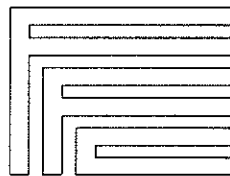
# FOOD FACILITIES CONCEPTS, INC.

## ■ COMPANY PROFILE



◆◆◆ To date, Food Facilities Concepts, Inc. has provided food service design for over six hundred ninety facilities throughout the country. Our success comes from repeat clientele and referrals, which are gained through our goal to strive for total client satisfaction. If your design requirements include any of the following areas, we are available and eager to assist you.

- **Kitchens**
- **Patient Feeding**
- **Cafeterias**
- **Dining Areas**
- **Satellite Kitchens**
- **Coffee Shops**
- **Restaurants**
- **Convenience Stores**
- **Culinary School Kitchens**



**Food Facilities Concepts, Inc.**  
**1100 Washington Ave. Suite 302**  
**Carnegie, Pennsylvania 15106**

412-276-9090 Fax 412-276-9093  
E-mail - [mtaylor@ffcinc.biz](mailto:mtaylor@ffcinc.biz)

Offices: Pittsburgh, Pennsylvania Columbia, Maryland

# STATEMENT OF QUALIFICATIONS ENVIRONMENTAL SERVICES

Moody and Associates, Inc.  
199 Johnson Road  
Bldg #2, Suite 101  
Houston, PA 15342  
Phone 724-746-5200  
Toll Free 866-336-0000  
Fax 724-746-5603

Moody and Associates, Inc.  
11548 Cotton Road  
Meadville, PA 16335  
Phone: 814-724-4970  
Toll Free: 800-836-5040  
Fax: 814-724-4973

## *Company Profile*

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Moody and Associates, Incorporated (Moody) is a privately owned corporation located in Meadville, Pennsylvania. The company was founded in 1891 and Jeffrey L. Moody is the fourth generation president and owner. Moody has offered continuous drilling and ground water development services to Pennsylvania and surrounding states for the last 117 years. Moody expanded our service area by adding branch offices in Houston, Pennsylvania and Rochester, New York.

In the early 1950s, Moody added geologists and hydrogeologists to its staff to provide professional geologic consulting services for its client base. For nearly 50 years, Moody has offered consulting services relative to waste disposal, site assessments, soil and ground water investigations and remediation, aquifer testing and evaluations, and related hydrogeologic and ground water development services. At the same time, Moody has maintained a contracting division that offers services in environmental and geotechnical drilling; high capacity water well installation, well/pump maintenance and aquifer testing.

The client base is strongly industrial and most of the consulting services center around the effects of industrial, commercial and mining activities on ground water and soil resources. This has led to close ties with the coal industry, the oil and gas industry, the steel industry and a wide variety of other industrial and commercial entities. Development of high capacity water supply wells has also led to close ties to industrial and municipal water users.

The company will upon occasion and when appropriate, conduct regional investigations for governmental agencies. Development of wellhead protection and source water assessment programs, evaluation of the impacts of oil and gas development on ground and surface water and regional ground water quality studies are examples of services provided to the federal government, various state agencies and local governmental agencies in the past.

## Miscellaneous Case Studies

### Project Description

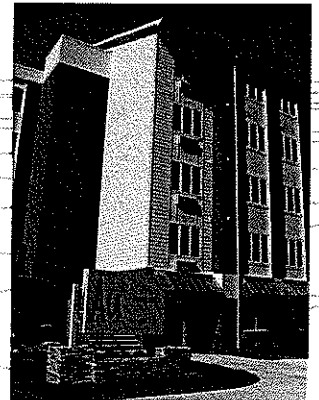
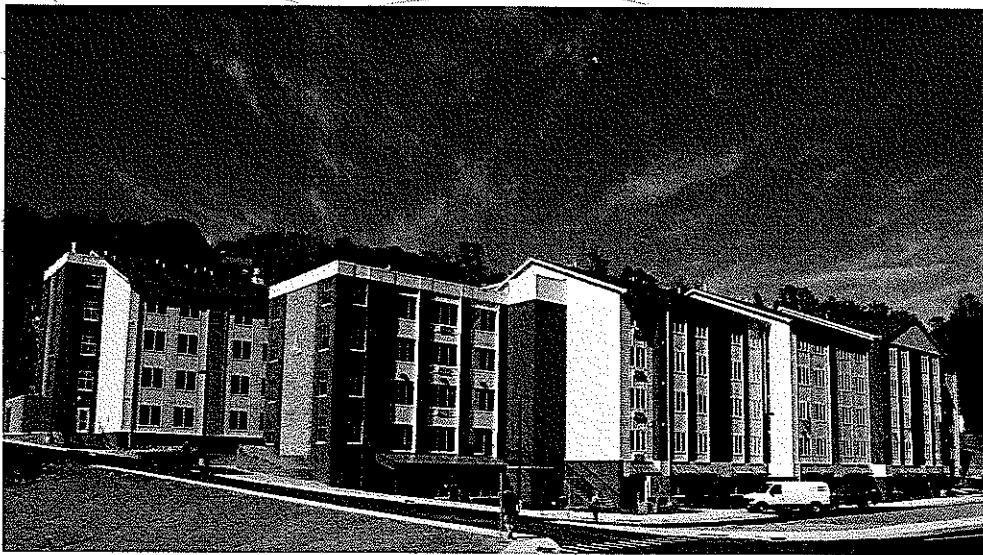
#### Augusta Residential Complex Morgantown, WV

Alpha recently completed the design and construction of a residential tower located in Morgantown. The project, consisted of two buildings and approximately 148,000 sf. Included in the building is:

- 158 student housing units for 296 occupants
- Mix of 2 bedroom/2 bath units & 1 bedroom/1 bath units
- Includes central lobby
- Multi-story - mid-rise development
- 2 buildings 5 to 7 levels
- 3 elevators
- Parking Garage
- Fully landscape courtyard
- Leasable rental space

#### At A Glance...

- 1 Client  
Private
- 2 Location  
Morgantown
- 3 Completion Date  
2007
- 4 Size  
148,000 SF
- 5 Construction Cost  
Private Client





## Recreation Case Studies

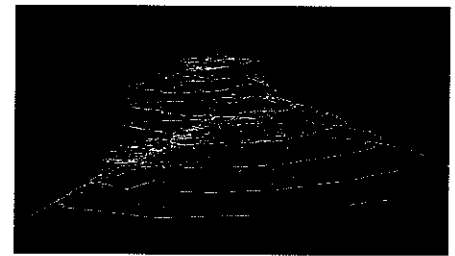
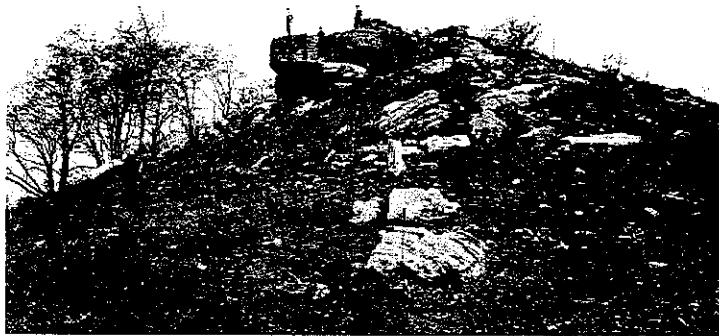
### Project Description

### Dorsey's Knob Observation Deck Morgantown, WV

Alpha Associates, Incorporated is designed a pedestrian observation deck encircling Sky Rock at Dorsey's Knob. The observation deck will provide a picturesque view of the Monongahela River and Monongalia County from one of the highest points in Monongalia County. The deck will include timber construction and architectural railings.

#### At A Glance...

- 1 *Client:*  
BOPARC
- 2 *Location:*  
Morgantown, WV
- 3 *Completion Date:*  
2006
- 4 *Size:*  
3000 SF
- 5 *Construction Cost:*  
To Be Determined



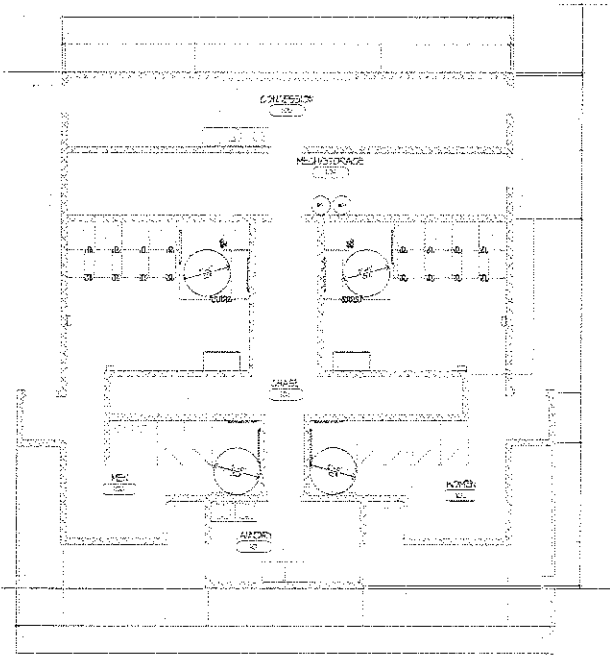
## Recreation Case Studies

### Project Description

#### North Fork Hughes River Recreational Design Ritchie County, WV

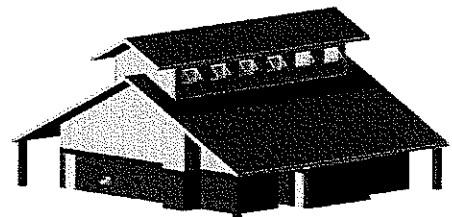
Alpha Associates, Incorporated provided Architectural, Engineering and Landscape Design for the implementation of a \$12 Million Master Plan for the USDA Projects include:

- Restrooms and Bath Houses
- Amphitheater
- Trails
- Parking Areas
- Check In Building
- Water Transmission and Distribution
- Navigational Aids
- Camping Areas (Deluxe and Primitive)
- Picnic Areas
- Sport Fields
- Roadways
- Maintenance Building
- Sewage Collection and Treatment



### At A Glance...

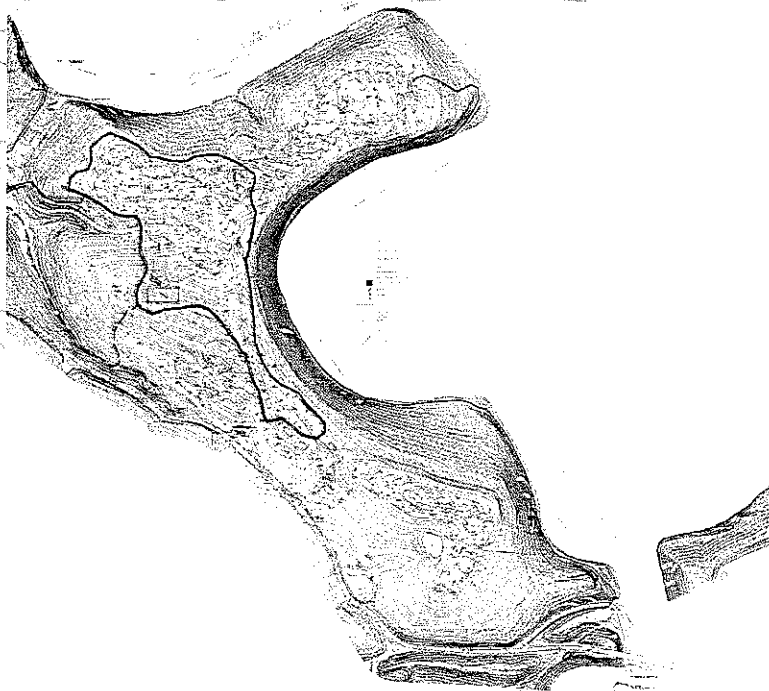
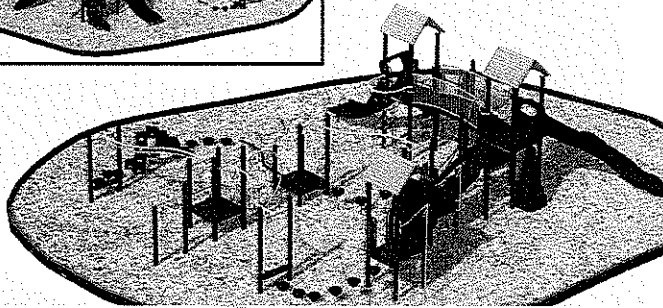
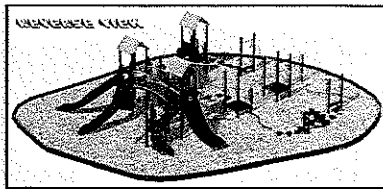
- 1 *Client:*  
United States Department of Agriculture
- 2 *Location:*  
Ritchie County, WV
- 3 *Completion Date:*  
Design Complete  
Construction TBD
- 4 *Size:*  
Multiple Projects
- 5 *Construction Cost:*  
Estimated \$12 million
- 6 *Project Relevance:*
  - Collaboration with Federal entities
  - Recreational Trails
  - Horseback Riding Trails
  - Recreational Facilities
  - Administrative Areas
  - Track and Field Areas



## Recreation Case Studies

### Project Description

### North Fork Hughes River Recreational Design Ritchie County, WV



#### At A Glance...

- 1 *Client:*  
United States Department of Agriculture
- 2 *Location:*  
Ritchie County, WV
- 3 *Completion Date:*  
Design Complete  
Construction TBD
- 4 *Size:*  
Multiple Projects
- 5 *Construction Cost:*  
Estimated \$12 million
- 6 *Project Relevance:*
  - Collaboration with Federal entities
  - Recreational Trails
  - Horseback Riding Trails
  - Recreational Facilities
  - Administrative Areas
  - Track and Field Areas



**Recreation Case Studies**

Project Description

**Mylan Park Recreational Complex Master Plan  
Monongalia County Schools Foundation  
Morgantown, WV**

Alpha Associates, Incorporated initially prepared a Master Plan for the development of Mylan Park Recreation Complex. The Master Plan took into consideration existing facilities, including Miracle Field and additional sports playing fields. Alpha prepared several iterations of the Master Plan, along with colored renderings. The Master Plan continues to adapt, based on funding for the project.

Subsequent to Alpha's Master Plan Development for the site, the Monongalia County Schools Foundation retained Alpha to do Schematic Building Design and Cost Estimates for a 168,000-square foot Recreational Facility in Morgantown.

Facilities to be included are:

- Exposition, meeting halls and dining facilities
- Soccer Fields
- Indoor Playing Surfaces
- Running track
- Indoor Olympic-size swimming pool
- Indoor Ice Rink
- Support Spaces

**At A Glance....**

1 *Client:*  
Monongalia County  
Schools Foundation

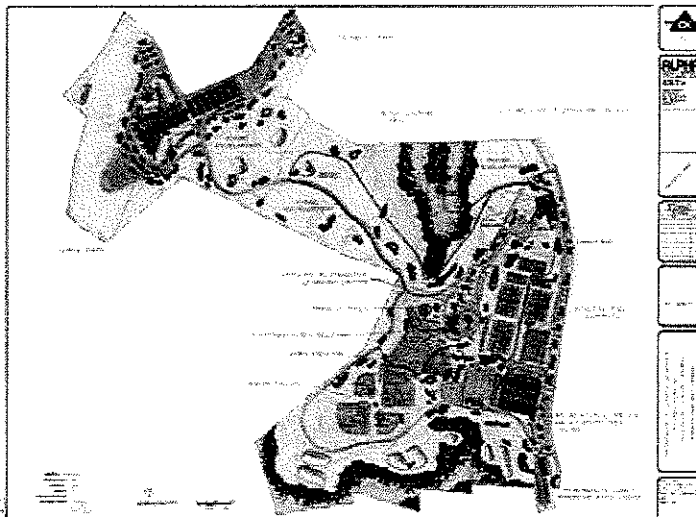
2 *Location:*  
Morgantown WV

3 *Completion Date:*  
To Be Determined

4 *Size:*  
Multiple Projects

5 *Construction Cost:*  
To Be Determined

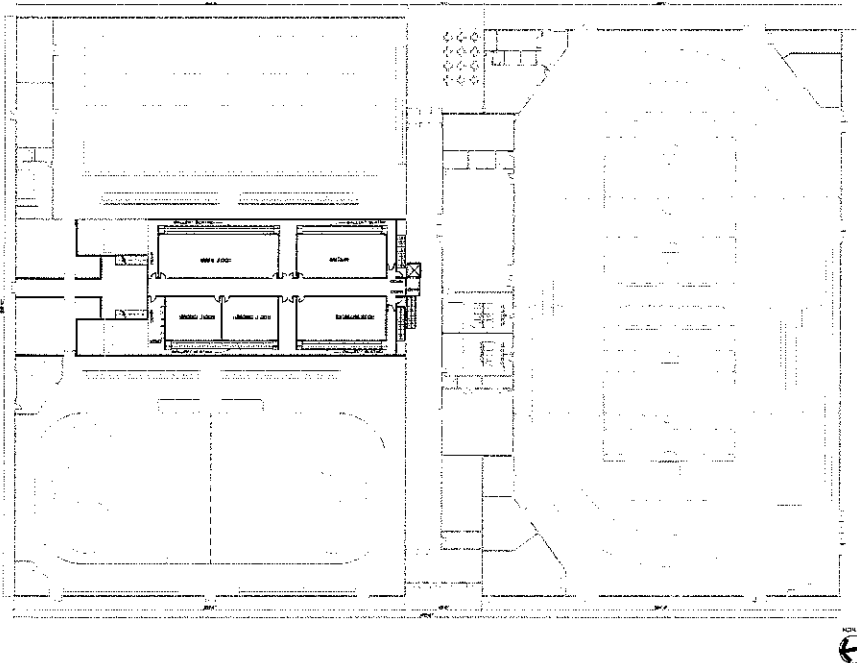
- 6 *Project Relevance:*
- Architectural Design
  - Recreational Facility
  - Gymnasium
  - Swimming Pool
  - Wellness Areas
  - Locker Area
  - Various Support Areas



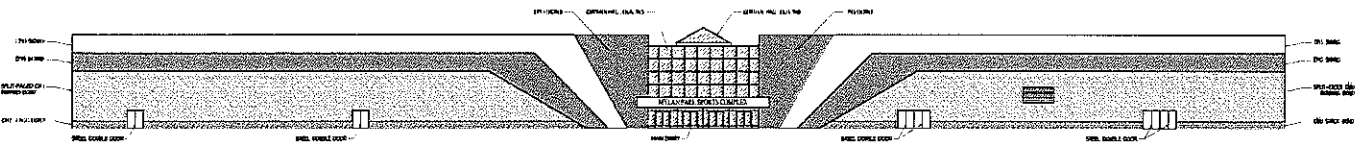
**Recreation Case Studies**

Project Description

**Mylan Park Recreational Complex  
Monongalia County Schools Foundation  
Morgantown, WV**



SECOND FLOOR PLAN  
1/8" = 1'-0"



WEST ELEVATION  
1/8" = 1'

**At A Glance...**

- 1 **Client:**  
Monongalia County  
Schools Foundation
- 2 **Location:**  
Morgantown, WV
- 3 **Completion Date:**  
To Be Determined
- 4 **Size:**  
Multiple Projects
- 5 **Construction Cost:**  
To Be Determined
- 6 **Project Relevance:**
  - Architectural Design
  - Recreational Facility
  - Gymnasium
  - Swimming Pool
  - Wellness Areas
  - Locker Area
  - Various Support Areas





## *FIRM OVERVIEW*

Founded in 1997, Valley Engineering Surveying Planning (VESP) has grown from a one man operation to a full service firm offering planning, transportation, surveying, civil, structural, mechanical, electrical, and plumbing design and consulting services. Acquiring Copper & Associates in January 2000, VESP added planning and surveying to its capabilities. In July 2001, VESP increased its market by expanding to Winchester, Virginia with the acquisition of Artz & Associates. VESP has grown to over 55 employees in two locations providing service in Virginia, West Virginia, and other surrounding states.

We work as a team with our clients to identify their needs and goals. Through schematic design, design development, and construction documents, each step of our design process is carefully communicated to the client. Our common goal is for the client to understand exactly what they should expect when their respective project is complete.

VESP believes successful projects begin with excellent planning and require interaction with the whole project team. Before beginning any design, we carefully help our client understand levels of expectation based on systems chosen and the amount of investment they are willing to make. Throughout the entire design process, we work with our clients to help them better comprehend project concepts that are both visible and hidden. We believe a better knowledge of these concepts creates increased owner awareness and satisfaction once the project is complete.

VESP's strength in our areas of expertise relies on over 150 years of combined design, construction, and installation experience. Prior to entering into the consulting business several members of the VESP design team worked for contracting firms building what we now design. This experience helps VESP develop reasonable budgets, accurate, energy efficient designs, and provides valuable insight for cost control during the design process.

We acknowledge the difficulty in selecting engineering firms. You expect creativity and technical expertise. Most firms have these attributes although many would disagree strenuously over what constitutes them. It has been our experience that clients want design firms committed to service, who genuinely listen, and who treat your work as if it were their own. We offer this service. Our philosophy is reflected in the creative and practical approach to unique problems, technical expertise, experience, history of excellent service, and principles.

# WVU Potomac State College Connecting Link

PLANNING DESIGN AND  
CONSTRUCTION PROJECT  
2008

10/2008

## Higher Education Case Studies

### Project Description

#### WVU Potomac State College Connecting Link Keyser, WV

The main purpose of the project is to provide handicapped individuals access to two of the most utilized buildings on the campus: the Administration Building and Academy Hall. Material selections and building proportions allows the new structure to blend into the two adjacent structures

Through the use of an elevator, multiple ramps, and new corridors, wheelchair access is available to all public areas of both buildings. Renovations of classrooms and toilet rooms were made to meet ADA regulations

Exterior improvements included the development of a plaza area between the buildings. Revised sidewalks from nearby parking permit wheelchair access to the buildings and to the main quadrangle of the campus.

### At A Glance...

- 1 *Client:*  
West Virginia University
- 2 *Location:*  
Keyser, WV
- 3 *Completion Date:*  
2008
- 4 *Size:*  
3,600 SF Addition  
11,200 SF Renovation
- 5 *Construction Cost:*  
To Be Determined



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## Historic Case Studies

### Project Description

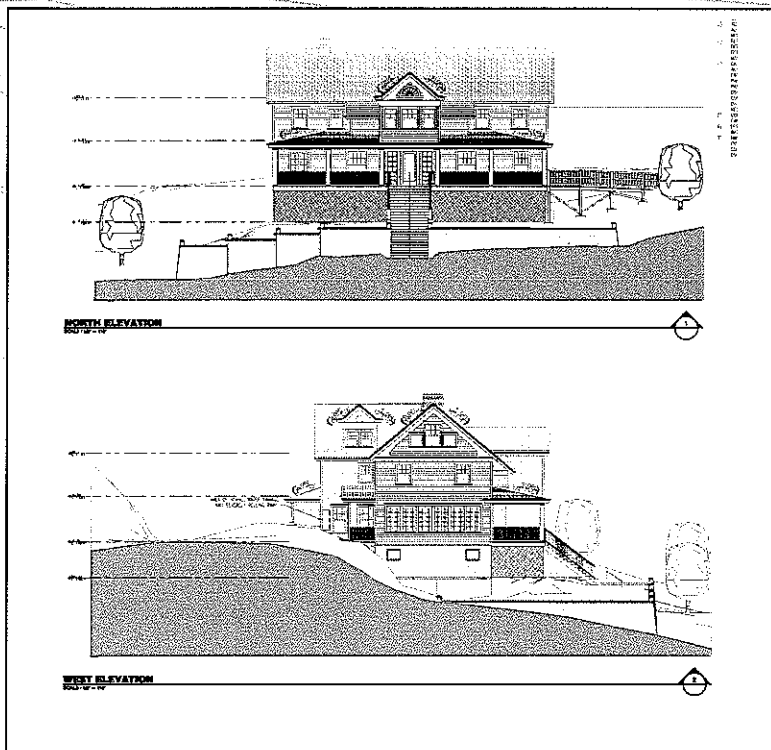
#### Cass Scenic Railroad - Clubhouse Renovation Cass, WV

Alpha Associates, Incorporated designed the renovation of this historic landmark originally built in 1916 with several additions being made to it by the early 1920's

Renovation of the Cass Clubhouse was first developed as a lodge concept. When that was deemed too costly, the renovation/restoration design was confined to the exterior building shell and first floor. This will stabilize the building and "fix" major problems while allowing the first floor to be operated as a museum. The upper floor will be "moth-balled" until another use and/or funding is available. The project is anticipated to be completed in late spring 2009.

#### At A Glance...

- 1 *Client:*  
Division of Natural Resources
- 2 *Location:*  
Cass WV
- 3 *Completion Date:*  
Spring 2009
- 4 *Size:*  
5,163 SF
- 5 *Construction Cost:*  
\$505,000





**Historic Case Studies**

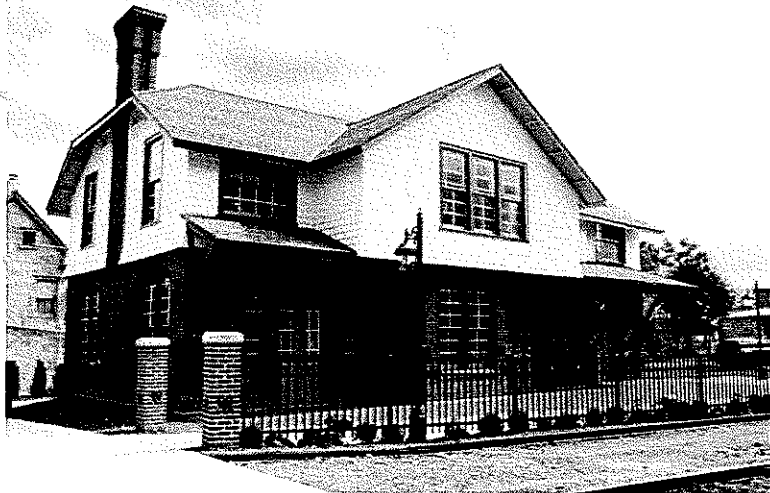
Project Description

**KCAD Professional Office Building  
 Martinsburg, WV**

Alpha Associates, Incorporated completed the restoration of this historic train station to be used as the Alpha Eastern Regional Office. The Martinsburg Train Station is part of the Boom Town Historic District. Originally constructed in 1889 to allow for the expansion of the Cumberland Valley Railroad, the Depot has not been used for passengers since the 1950's. Extensive care was taken to maintain the original windows and to restore much of the original façade. Alpha received a West Virginia Society of Architects Design award for this historical restoration.

**At A Glance...**

- 1 Client: KCAD Properties
- 2 Location: Martinsburg WV
- 3 Completion Date: 2001
- 4 Size: Private Client
- 5 Construction Cost: Private Client



**Transportation Case Studies**

Project Description

**West Virginia Medal of Honor Recipients Memorial Plaza  
 Hazelton, WV**

The I-68 Welcome Center in Hazelton, WV was designed for the West Virginia Division of Highways. This project is located in Preston County and required a separate sewage treatment plant and major utility extensions due to the remote location of the site. The building is designed using native West Virginian materials as a central design theme. The design has steeply sloped, metal-clad roofs evocative of West Virginia's hills. Exposed heavy timber framing, native ledge rock stonework and rough-cut cedar siding are used both inside and outside of the building as a symbolic reminder of the beauty and ruggedness of the State's rustic environment.

The Welcome Center is a single-story building of approximately 7,700 square feet in area. It has separate spaces for public restrooms, vending, landscaped sitting "mall", arts and crafts display and offices. A state of the art, multiple-monitor, computerized theater having multi-media presentation capabilities is also included, as well as interactive computer kiosks bringing the latest updates on regional and state-wide information (such as accommodations, travel conditions, weather and festival events) to residents and visitors alike. This design utilizes large glass view areas within the Welcome Center to take advantage of the mountainous vista at this site.

**At A Glance.....**

- 1 Client:  
West Virginia Division of Highways
- 2 Location:  
Hazelton, WV
- 3 Completion Date:  
2002
- 4 Size:  
7,700 SF
- 5 Construction Cost:  
\$2,000,000



## Historic Case Studies

### Project Description

#### **Berkeley Springs Bath House Berkeley Springs, WV**

Alpha Associates, Incorporated designed the renovation of this historic landmark originally built in 1929 with a 1949 addition. The Bath House in Berkeley Springs State Park is open to the public and is operated year round by the Park Service. Approximately 12,000 people are served by the facility in a typical year, most staying at the nearby inn while others are from the surrounding community.

The renovation includes restoration of the historic masonry exterior. New hot water storage tanks and boilers are a major component of the design, as well as, central air-conditioning, which the Bath House never had before.

The interior will have added amenities such as whirlpool baths. The Bath House will be upgraded to reflect a more "spa-like" ambiance. The existing Roman Baths will have new liners and saunas will be added for the benefit of the Bath House patrons. It is anticipated the project will be completed summer of 2009.



#### **At A Glance...**

- 1 *Client:*  
Division of Natural Resources
- 2 *Location:*  
Berkeley Springs, WV
- 3 *Completion Date:*  
Summer 2009
- 4 *Size:*  
7,127 square feet
- 5 *Construction Cost:*  
2.2 Million



## Recreation Case Studies

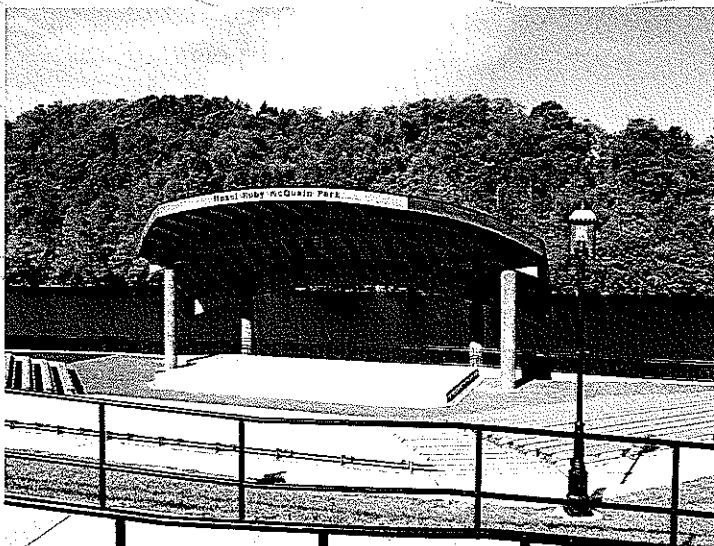
### Project Description

#### Hazel Ruby McQuain Riverfront Park Amphitheater Roof Morgantown, WV

The Amphitheater Roof for Hazel McQuain Ruby Park, located in the Wharf District of Morgantown, had very simple goals. The structure was to provide a sun and rain shade while allowing a view of the River beyond. Alpha Associates, Incorporated responded with a simple geometric form that incorporates a complex structural solution. The roof is arched in two directions and anchored to the ground at four points. The grounding points are round concrete columns that echo the concrete bridge abutments of the Westover Bridge in the vicinity of the Park. The arches of the roof are laminated wood beams connected to the concrete columns with steel plates and tension rods. The wood beams and roof decking, visible from the underside of the roof, are a structural solution as well as an aesthetic tribute to the past industrial age exhibited in the various warehouses and industrial buildings that composed the Wharf District area in the late 19<sup>th</sup> and early 20<sup>th</sup> Century.

#### At A Glance...

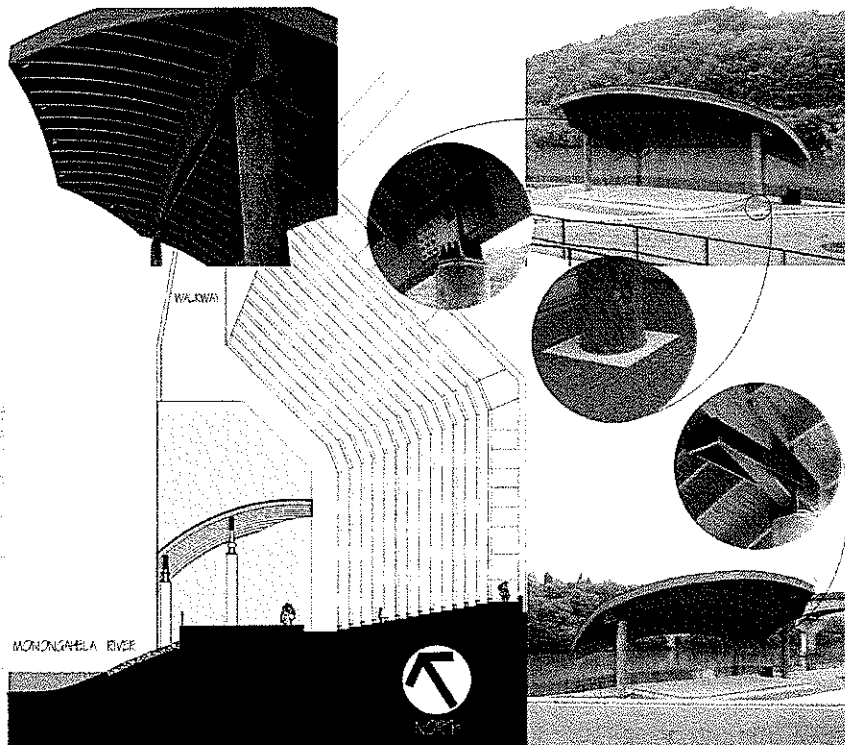
- 1 *Client:*  
City of Morgantown
- 2 *Location:*  
Morgantown, WV
- 3 *Completion Date:*  
2002
- 4 *Size:*  
N/A
- 5 *Construction Cost:*  
\$550,000
- 6 *Project Relevance:*
  - Recreational Facility
  - Access to Rail-Trail
  - Restroom Facilities



## Recreation Case Studies

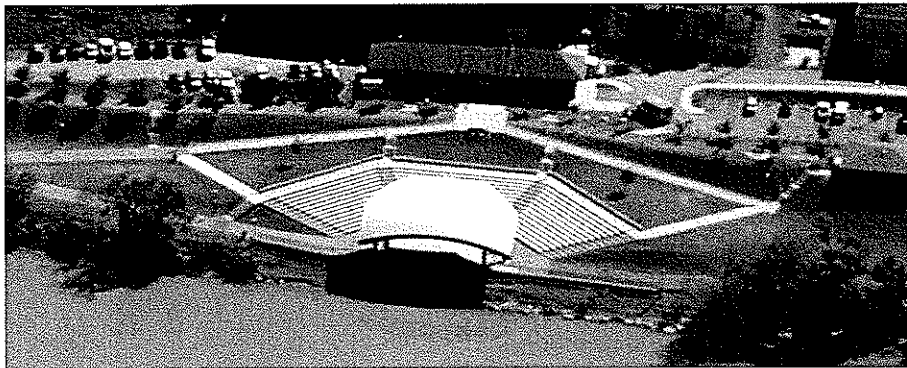
### Project Description

#### Hazel Ruby McQuain Riverfront Park Amphitheater Roof Morgantown, WV



#### At A Glance...

- 1 **Client:**  
City of Morgantown
- 2 **Location:**  
Morgantown, WV
- 3 **Completion Date:**  
2002
- 4 **Size:**  
N/A
- 5 **Construction Cost:**  
\$550 000
- 6 **Project Relevance:**
  - Recreational Facility
  - Access to Rail-Trail



## Recreational Case Studies

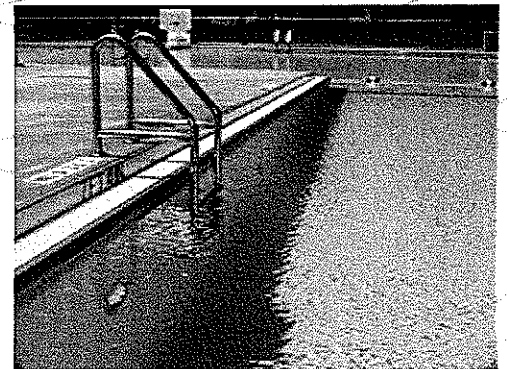
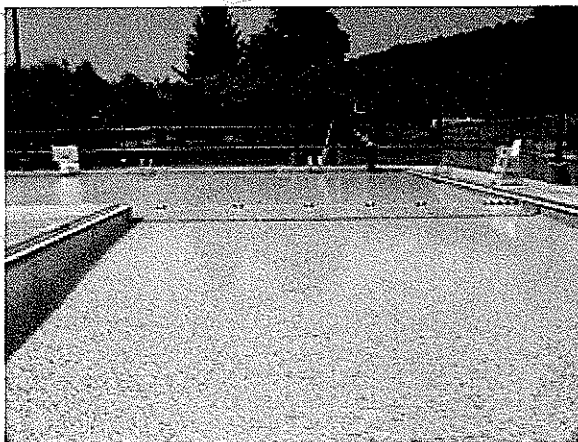
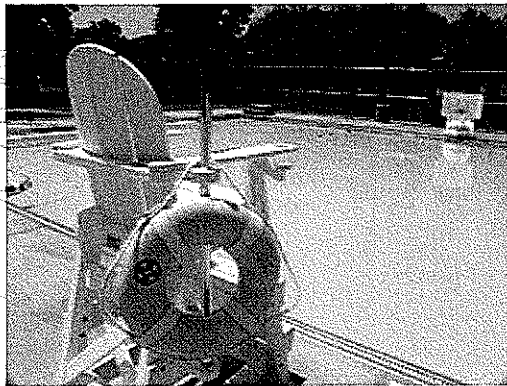
### Project Description

#### West Virginia University Jackson's Mill Swimming Pool Jane Lew, WV

Alpha Associates, Incorporated was retained to design the replacement swimming pool at the West Virginia University Jackson's Mill 4-H Camp. This swimming pool replacement is estimated to be 175,000 gallons with multiple depths and complete ADA Accessibility. In addition, this project included a new patio deck and side-walks surrounding the pool area, a new lighting plan to better illuminate the area and updating the mechanical systems that serve the pool.

#### At a Glance...

- 1 *Client*  
West Virginia University
- 2 *Location*  
Jane Lew, WV
- 3 *Completion Date*  
2005
- 4 *Size*  
175,000 Gallons
- 5 *Construction Cost*  
\$720,000
- 6 *Project Relevance*
  - Recreational Facility
  - Swimming Pool



# Berkeley Springs Water Works

POTABLE WATER SYSTEM  
2004

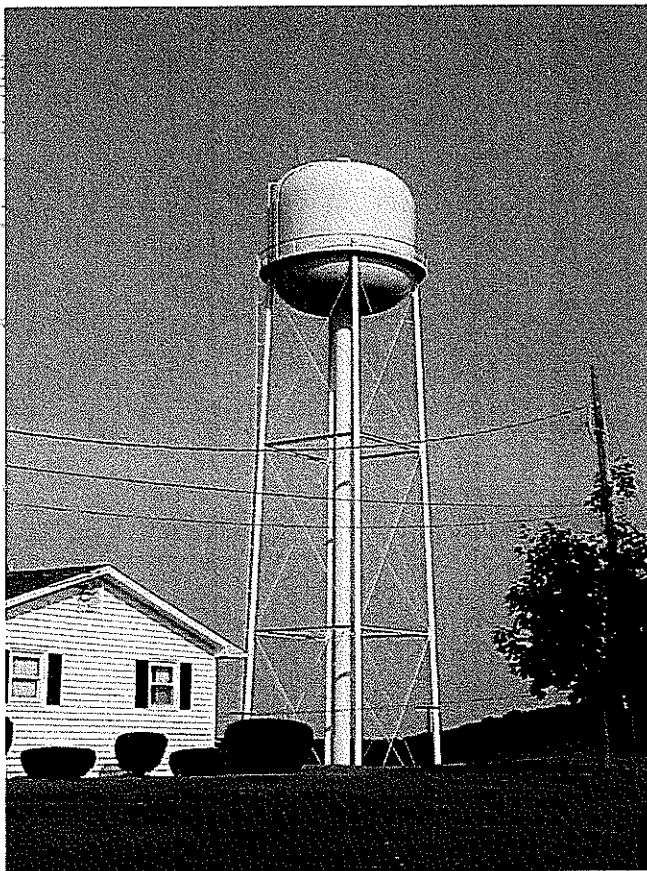
PROJECT

## Potable Water Case Studies

### Project Description

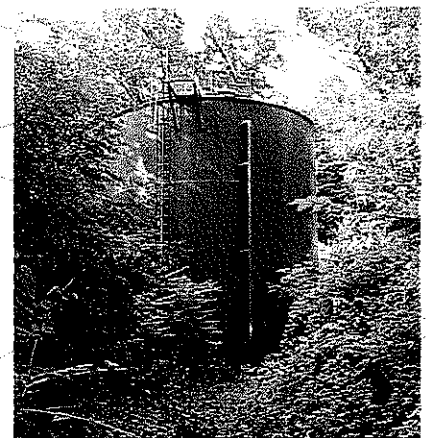
#### Berkeley Springs Water Works Berkeley Springs, WV

Engineering work included a multiple phased project of improvements to the municipal water system. Contracts 1 and 2 included a 4,000 feet water main extension, renovations to the water booster station and construction of a 200,000 gallon elevated water storage tank. Contracts 3 and 4 included the construction of a 144,000-gallon water storage tank and the installation of a new altitude valve vault



#### At A Glance...

- 1 *Client:*  
Berkeley Springs Water Works
- 2 *Location:*  
Berkeley Springs, WV
- 3 *Completion Date:*  
2002
- 4 *Size:*  
4 000 LF of Waterline
- 5 *Construction Cost:*  
\$959,264
- 6 *Project Relevance:*
  - Water Main Extension
  - Elevated Storage Tank
  - Altitude Valve Vault
  - Welded Steel Ground Storage Tank



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**Education Case Studies**

Project Description

**City of Shepherdstown  
 Shepherdstown, WV**

This project involved the renovation of the main pump station, which included pumps, motors, valves and piping, master meter replacement and electronic control system. It also involved the construction of a new interceptor sewer, the majority of which runs through the campus of Shepherd College. The project was divided into several contracts, with all contracts now completed. The construction cost for the entire project was approximately \$220,000. The contracts required the pumping of the entire flow in the existing interceptor while the pump station was renovated.

**At A Glance...**

- 1 *Client:*  
Shepherd College
- 2 *Location:*  
Shepherdstown, WV
- 3 *Completion Date:*  
1999
- 4 *Size:*  
Multiple Projects
- 5 *Construction Cost:*  
\$220,000
- 6 *Project Relevance:*
  - Sewer line installation





## Restaurant/Dining Case Studies

### Project Description

#### West Virginia University –Boreman Bistro Morgantown, WV

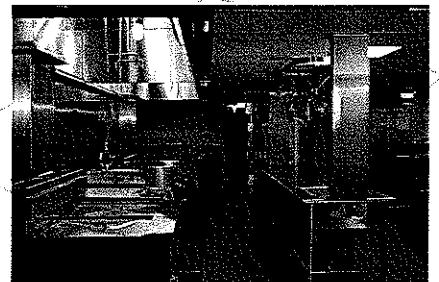
Alpha Associates, Incorporated provided architectural design services to completely renovate the interior space of the two floor, 4,000 square foot Boreman Bistro, located on the West Virginia University Campus

The Boreman Bistro is a campus dining room housed in an eighty year old dormitory. The lower level kitchen and utilities had not had a complete renovation in decades. The dining room and serving line was to reflect the change in food delivery services and seating and gathering areas. Integral to the look of the facility was the introduction of a coffee bar and Bistro atmosphere with intimate booth seating. The kitchen and serving lines were completely updated with new equipment and food stations.

All aspects of this project had to be completed simultaneously on a tight schedule in order to insure the doors would be open for the first day of classes.

#### At A Glance...

- 1 *Client*  
West Virginia University
- 2 *Location*  
Morgantown WV
- 3 *Completion Date*  
2007
- 4 *Size*  
4 000 square feet
- 5 *Construction Cost*  
2.2 Million



## Wastewater Case Studies

### Project Description

### I-79 Burnsville & Servia Rest Area Sewage Treatment Plants

Alpha Associates, Incorporated designed the renovation of the Burnsville and Servia sewage treatment plants serving the rest areas on I-79 in West Virginia. The Burnsville plant treats over 39,500 gallons per day, while the Servia plant treats over 36,000 gallons per day. Both treatment plants are replacements of existing secondary treatment plants and consist of recirculating sand filter systems that provide tertiary treatment.

#### At A Glance...

- 1 *Client*  
West Virginia Division of Highways
- 2 *Location*  
Interstate 79, WV
- 3 *Completion Date*  
2004
- 4 *Size*  
39,500 and 36,000 GPD
- 5 *Construction Cost*  
\$1.6 Million
- 6 *Project Relevance*  
• Treatment plant



## Potable Water Case Studies

### Project Description

### Point Marion Preliminary Engineering Report Point Marion, PA

Alpha Associates, Incorporated prepared a preliminary engineering report for the replacement of approximately 25,000 LF of waterline and related appurtenances, as well as, improvements to the treatment plant and water storage tank. The project has been preliminary approved for funding by the United States Department of Agriculture Rural Utilities Service and is in the final stages of funding approval. Alpha is now preparing construction plans and specifications. It will be bid in January 2009

#### At A Glance...

- 1 *Client:*  
Borough of Point Marion
- 2 *Location:*  
Point Marion, PA
- 3 *Completion Date:*  
Est 2009
- 4 *Size:*  
25,000 LF of 2" through  
12" waterline
- 5 *Construction Cost:*  
\$2.1 Million
- 6 *Project Relevance:*
  - Waterline
  - Grant funded



**VESP**

VALLEY ENGINEERING  
SURVEYING PLANNING

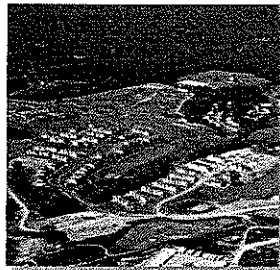
## *RELATED PROJECTS*



### **Massanutten Aquatic Park**

Harrisonburg, Virginia

- Completed mechanical and plumbing systems design for an indoor water park. Specific design features included large shower areas, restaurant spaces, meeting spaces, arcade space, and ventilation for 12 different indoor water park features. Rooftop equipment included dehumidification capability. Design included make-up and exhaust for kitchen/concessions areas. 84,000 SF, \$35 million, 2005.



### **Massanutten Resort - Woodstone Meadows**

McGaheysville, Virginia

- The most recent project included 180 acres of vacation type timeshares and a 9 hole golf course. The development includes a community style road system with approximately 17,560 feet of roadway and all associated utilities. Also, a golf course was constructed to intermingle with timeshare development with public safety and aesthetics being of major concern. Engineering included: roadway alignment, pavement design, site grading, storm sewer design, stream relocation, utility routing, pump station design, two regional storm water management ponds, and erosion and sediment control design. Construction management to ensure compliance with all associated regulatory agencies. Review of shop drawings and value engineering with contractor to reduce construction costs.



Construction documents and infrastructure design of an indoor and outdoor water park recreational facility. Project included 3,100 feet of roadway and 10.5 acres of parking lots. At the direction of the Dept. of Environmental Quality  $\pm 500$  feet of stream was relocated for the construction of two stormwater management ponds. A pump station was designed for Phase I of development. The pump station was sized for Phase II and for the anticipated construction of a future off-site, 80 acre commercial site. Engineering included: roadway alignment, pavement design, site grading, stream relocation, utility routing, pump station design, a backwash holding tank, storm sewer design, three storm water management ponds, and erosion and sediment control design. Construction management to ensure compliance with all associated regulatory agencies. Review of shop drawings and value engineering with contractor to reduce construction costs.

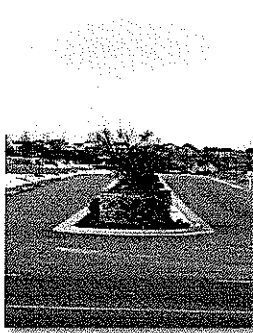
**VESP**

VALLEY ENGINEERING  
SURVEYING PLANNING

## *RELATED PROJECTS*

### **Crossroads Farm**

Penn Laird, Virginia



- Design team which included civil engineering, surveying, and planning. Project consists of roughly 500 residential units, 9 acre commercial area, and expansion of existing 27 hole golf course to 36 holes (under separate owner). Surveying includes property divisions and updating of topographical information to show field changes due to construction activity. Planning included site layout and modifications based upon market analysis information provided by client, Final Plan preparation and submittal, Master Plan Amendments, Zoning Text Amendments, coordination with landscape architects, and Client representation. Civil engineering included coordination with golf course architect; roadway design; utility layout, design and analysis; erosion control, stormwater management, and review of other design professional's proposed improvements impacting client's interests. We have recently been authorized to begin the process to revise the approved Master Plan for this community to increase the area of the Commercial Development by 60 acres.

**VESP**

VALLEY ENGINEERING  
SURVEYING PLANNING

## *RELATED PROJECTS*



### **Bridgewater Retirement Community**

Bridgewater, Virginia

- Completed civil, mechanical, electrical, and plumbing systems design for twenty three duplex retirement homes on Mount Crawford Avenue. Design focus from the client was to construct energy efficient duplexes. 4,000 SF per duplex, \$360,000 per duplex, 2004.

### **Nautilus Fitness Center**

Harrisonburg, Virginia

- Completed mechanical, electrical, and plumbing systems design for a fitness center. Specific features included saunas, hot tubs, a suspended track, and tenant lease spaces integrated with the fitness facility. 19,000 SF, \$1.8 million, 2003.

### **Dayton Municipal Building**

Dayton, Virginia

- Prepared mechanical, electrical, and plumbing systems design for a new municipal building. Mechanical systems design included provisions for future unfinished space and energy recovery units to handle ventilation air for high occupancy spaces. Electrical systems design included fire alarm, audio/visual provisions, interior/exterior lighting, and power. Plumbing systems design included creative design ideas providing the owner with a high quality end product while keeping plumbing construction costs to a minimum. 15,000 SF, \$1.9 million, 2006.





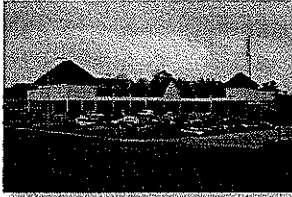
## *RELATED PROJECTS*

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### **Summit Square Retirement Community**

Waynesboro, Virginia

- Renovation of a former community hospital into a modern retirement facility. Facility included resident apartments, assisted living area, guest apartments, dining areas, kitchen, laundry, gift shop, and spa area. Mechanical and plumbing systems were completely upgraded. 151,700 SF, \$8 million, 1999.



### **The Shops at University Boulevard**

Harrisonburg, Virginia

- Completed structural, mechanical, electrical, and plumbing systems design for a mixed use facility. A portion of the building was designed to Mercantile use group and the remaining floor area was designed to Business use group. 15,000 SF, \$1.8 million, 2007.

**PROJECT: BLACKWATER FALLS STATE PARK  
LODGE DINING ROOM AC**  
*LOCATION: DAVIS, WV*



**MEP TECHNICAL HIGHLIGHTS:**

<b>Total Project Budget:</b> <i>\$165K (est)</i>
<b>MEP Budget:</b> <i>\$165K (est)</i>
<b>Facility Area:</b> <i>Approx 3,000 ft<sup>2</sup></i>
<b>Services Provided:</b> <i>Mechanical</i>
<b>Project Status:</b> <i>Bidding</i>
<b>Project Completion Date:</b> <i>May 2009</i>

Miller designed a replacement air system which includes air conditioning. This was achieved by installing an air handling unit on the exterior and ducting it into the facility. To prevent the new equipment from becoming an eyesore and interfering with the views from the lodge, some of it is mounted remotely in a loading dock area. The equipment which could not be remotely located is installed behind a masonry wall which incorporates the same stone as the lodge. A new chiller was incorporated into the design to give better humidity control.



**PROJECT DESCRIPTION:**

The Lodge Dining Room was originally constructed with a heating only air system. As the facility has increased in popularity and the dining room begins to fill with visitors, the temperature and humidity levels became uncomfortable and air conditioning was needed. The Park Lodge is located proximate to the Blackwater Falls, a natural wonder. MEI performed a detailed survey of the system and made recommendations to the Owner.

**REFERENCE:**

Brad Leslie PE, WV Department of Natural Resources  
State Capital Complex Building #3  
Charleston, WV  
304-558-2775



**PROJECT: CANAAN STATE PARK LODGE  
BOILER EVALUATION**

**LOCATION: CANAAN VALLEY, WV**

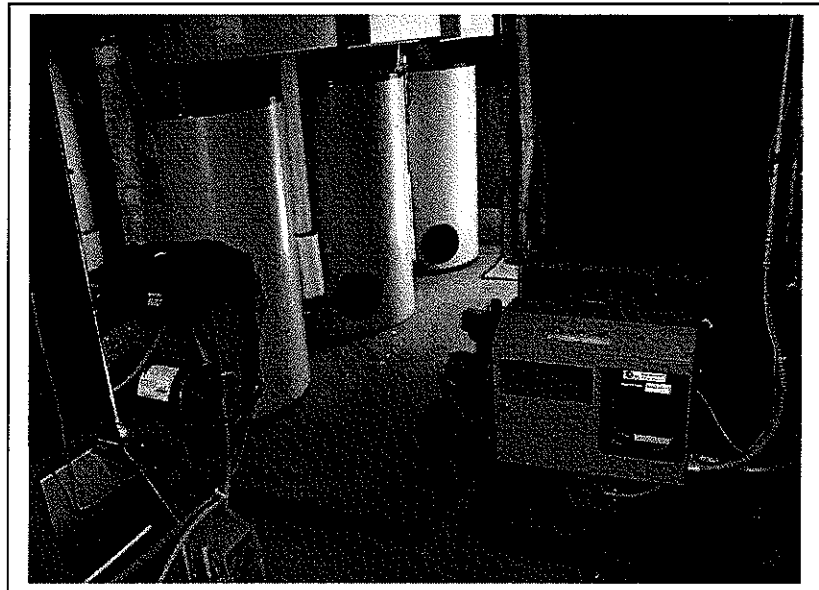


**MEP TECHNICAL HIGHLIGHTS:**

<b>Total Project Budget:</b>	<i>\$195K (est)</i>
<b>MEP Budget:</b>	<i>\$195K (est)</i>
<b>Facility Area:</b>	<i>Approx 20,000 SF</i>
<b>Services Provided:</b>	<i>Mechanical Evaluation</i>
<b>Project Status:</b>	<i>Bidding</i>
<b>Project Completion Date:</b>	<i>N/A</i>

At the Owner's request, Miller Engineering assessed the gas fired hot water boiler system at the Canaan Valley Lodge. One of the existing boilers reportedly had developed a crack in the rear tube sheet and was leaking. Additionally, the annual insurance inspectors report flagged the boilers as a potential concern.

The boilers were installed in 1994 and re-tubed 2 - 3 years ago due to "excessive corrosion". It is highly unusual for a boiler of this age to need re-tubed so quickly. Miller evaluated the boiler repairs based ASME standards and best industry practices and made recommendations to the Owner regarding whether repair or replacement was the best course of action. Both a short term and long term recommendation were made, which permitted the Owner to continue to operate the facility safely.



**PROJECT DESCRIPTION:**

The Canaan Valley State Park Lodge was originally constructed around 1970 with large electric boilers which were later replaced with gas-fired boilers. The Park is located in the Canaan Valley, one of the most popular recreation sites in the state. MEI performed a detailed survey of the system and made recommendations to the Owner.

**REFERENCE:**

Brad Leslie PE, WV Department of Natural Resources  
State Capital Complex Building #3  
Charleston, WV  
304-558-2775

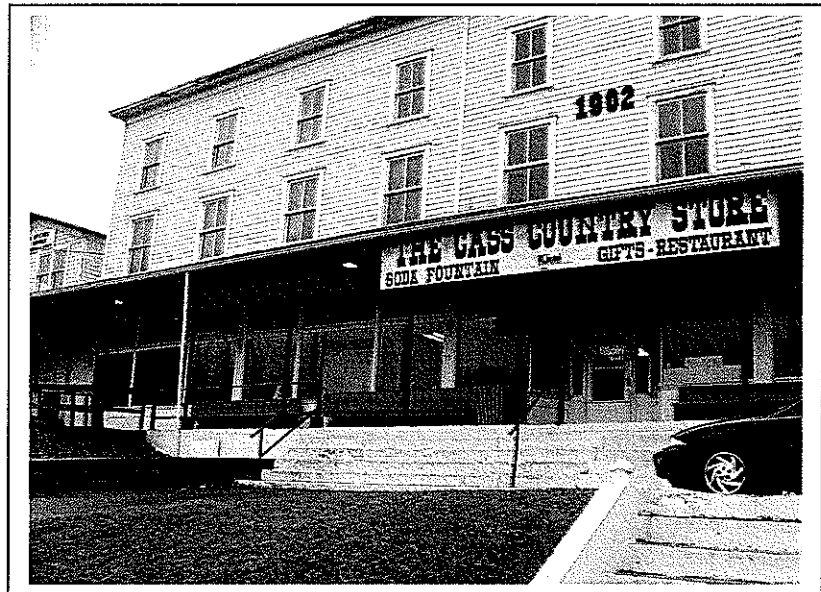
**PROJECT: CASS COUNTRY STORE HEATING**  
**LOCATION: CASS, WV**



**MEP TECHNICAL HIGHLIGHTS:**

Total Project Budget	\$375 (K\$)
MEP Budget	\$575K (K\$)
Facility Area	Approx. 34,000 SF
Services Provided	Mechanical
Project Status	Bidding
Project Completion Date	Phase 2, June 2009

The 1902 building originally served the region as a furniture store and was made part of the Cass Scenic Railroad in the 1960's. The Owner's complaints included uneven heating, repeated steam leaks and boiler safety concerns. Phase one of the project consists of a heating system evaluation, detailed recommendations, and preparation of preliminary budget cost to implement the repair/ replacement of the heating system. Phase two is the follow on implementation of the report recommendations. The existing coal fired boiler is being replaced with high efficiency, propane fired boilers and the steam radiators are being replaced with HW fan coils giving the facility some zone level control.



**PROJECT DESCRIPTION:**

Located in the charming, historic town of Cass, WV, the Cass Country Store complements the Cass Scenic Railroad State Park which transports passengers back in time for an unforgettable adventure. The first phase of the project was to evaluate the existing steam heating system and its components. The existing steam system was a rather unique single pipe system. The building originally boasted a steam powered elevator. MEI performed a detailed survey of the system and determined that a full replacement was required.

**REFERENCE:**

Don Smith PE, WV Department of Natural Resources  
1200 Harrison Ave., Suite 222  
Elkins, WV 26241  
304-637-0300

**PROJECT: TOMLINSON RUN STATE PARK POOL  
EVALUATION and REPAIR/ REPLACEMENT  
OWNER: WEST VIRGINIA DNR**



**MEP TECHNICAL HIGHLIGHTS:**

Total Project Budget  
\$700,000 (est.)

MEP Budget  
\$700,000 (est.)

Facility Area  
15,000 sq. ft.

Services Provided  
Mechanical, Electrical,  
Pool Systems

Project Status  
Phase I Study in  
Progress

Project Completion  
Date

The Project includes a Phase One evaluation of the existing pool and water slide to determine the overall condition and suitability for an extensive repair or replacement. This phase will include preliminary design concepts and budgetary estimation. Phase Two will be the design and construction of the Owner selected project goal albeit repair or replacement.



**PROJECT DESCRIPTION:**

The existing pool was constructed in approximately 1980 by a local pool contractor. The Owner indicates they are experiencing significant leaking and cannot determine the precise cause. Additionally, the pool is experiencing significant cracking at the tops of the pool walls. The water slide is 17 years old and is reportedly difficult to keep in operation due to various maintenance issues. The pool has a rather unique CMU (concrete block) and tension rod wall configuration which is being evaluated for the potential to perform an extensive repair. As part of a repair, the owner wishes to significantly alter the depth profile of the pool and make the pool ADA accessible. The Phase One study is under way at this time.

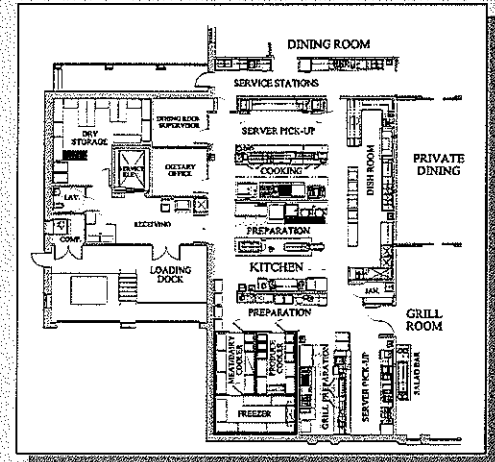
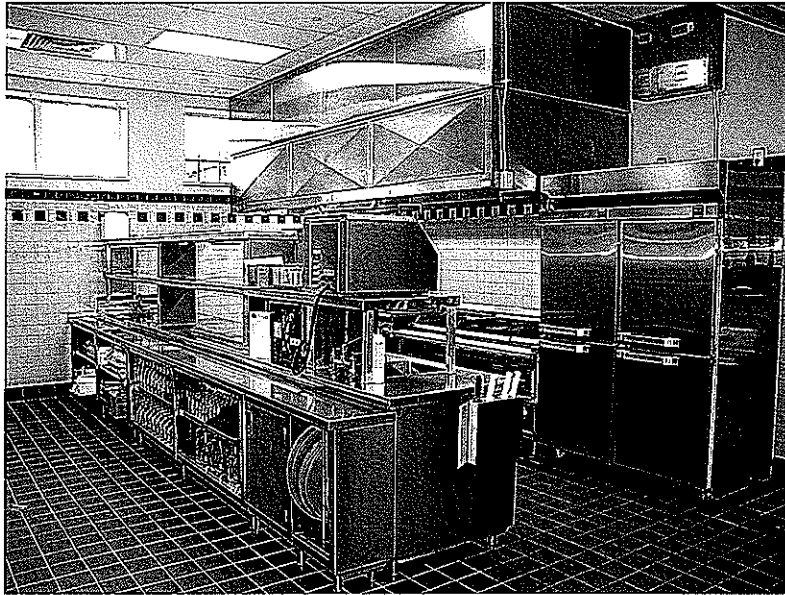
**REFERENCE:**

Don Smith, WV Department of Natural Resources  
1200 Harrison Ave., Suite 222  
Elkins, WV 26241  
304-637-0300

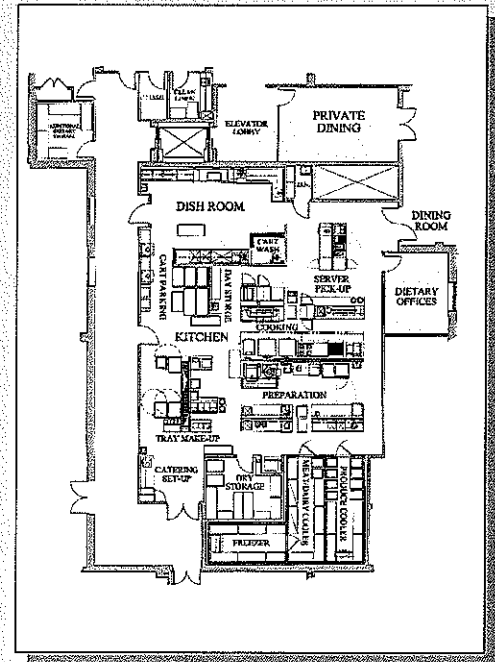
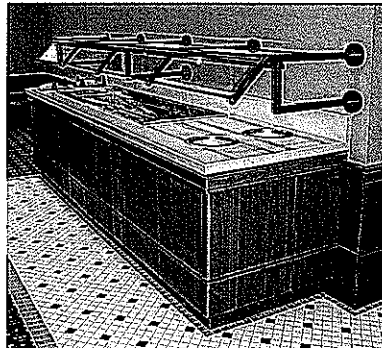
# FOOD FACILITIES CONCEPTS, INC.



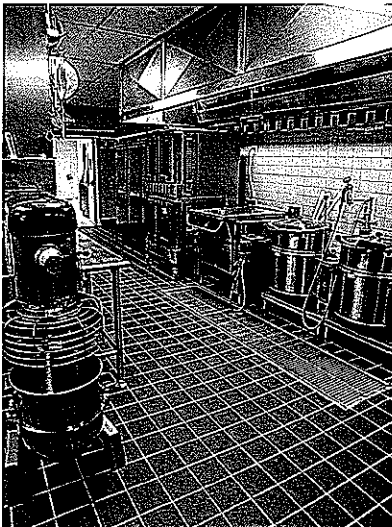
## Masonic Village at Sewickley - Sewickley, PA



Club House - Independent Living

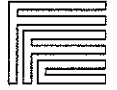


Nursing and Assisted Living Facility

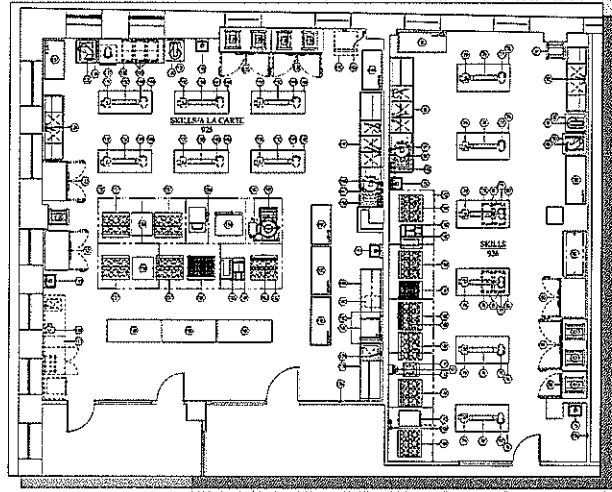


## RETIREMENT COMMUNITY

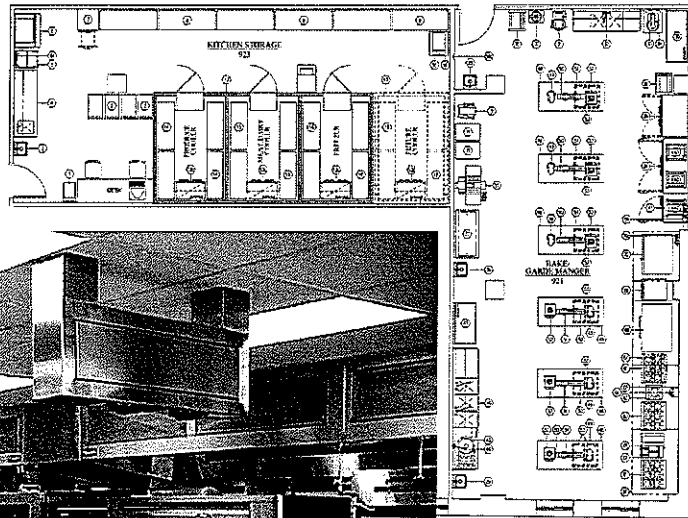
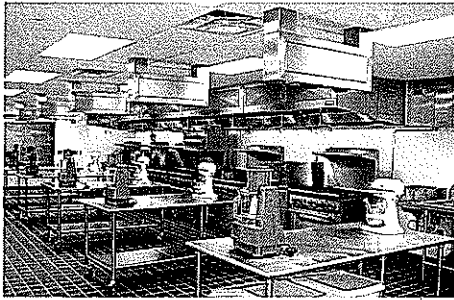
■ Total Food Service Design ■



## Art Institute of Pittsburgh - School of Culinary Arts

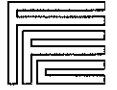


Three Teaching Kitchens  
and Support Facilities

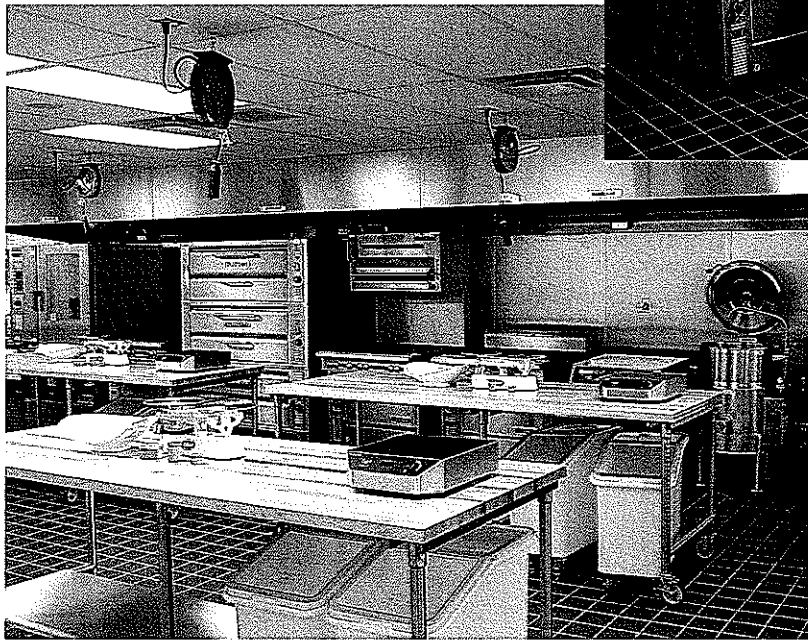
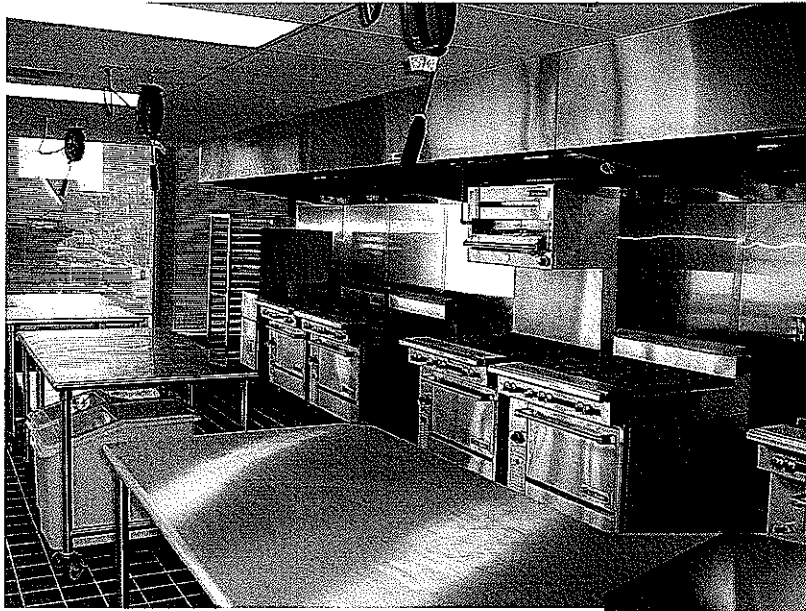


■ Total Food Service Design  
& Complete Equipment  
Package Installation ■

# FOOD FACILITIES CONCEPTS, INC.



■ Art Institute of Vancouver - Vancouver, British Columbia



Four Teaching Kitchens  
and Support Facilities

■ Food Service Design  
& Complete Equipment ■  
Package Installation

**MOODY AND ASSOCIATES, INC.**  
**REPRESENTATIVE PROJECT LISTING**  
**GROUND WATER SUPPLY DEVELOPMENT**

The following represents a project listing for ground water supply development work that Moody has completed over the past ten years in the State of West Virginia.

- **Preston County Public Service District 4 (Preston County):**

Moody completed an extensive hydrogeologic evaluation of the project area near Bruceton Mills, WV, in order to develop a new ground water supply to be utilized for supplying adequate water quantities for a new federal prison. The work completed for this project included initial ground water feasibility studies, completion of well drilling and aquifer testing activities, monitoring of nearby domestic water supplies, conduct aquifer evaluations and analysis, review of water quality data and make recommendations regarding the long term water use for the new wellfield. This wellfield is capable of producing in excess of 500,000 gallons per day (gpd).

- **Woods Resort (Berkeley County):**

Moody completed several ground water development activities as part of this project. Existing water supply wells were rehabilitated due to heavy mineral (iron and scale) encrustation and extensive well drawdown. These wells were rehabilitated in order to gain lost well yield to ensure shorter pumping cycles and to minimize well drawdown. Moody also conducted a ground water feasibility study to find favorable areas to install a supplemental water supply. Moody representatives provided oversight to complete well drilling and testing activities in accordance with West Virginia Department of Health and Human Resources (WVDHHR) protocol and to properly permit the new water supply well.

- **City of Moundsville (Marshall County):**

The City of Moundsville has been a long time client of Moody and Associates. The City currently utilizes in excess of 2 MGD of water, all of which are produced from ground water supply wells completed in the alluvial sand and gravel deposits found

along the Ohio River. Moody has completed numerous activities for the City, such as, well rehabilitation efforts, well drilling and reconstruction and wellfield and aquifer evaluations.

- **Tom Seely Furniture (Morgan County):**

Moody assisted Tom Seely Furniture and its engineering consultant regarding water supply issues. Large quantity water supplies are very difficult to find in this portion of West Virginia. Moody assisted by evaluating the long term yield of existing water supplies in order to allow for the design of proper fire protection infrastructure at this facility.

- **Page Kincaid Public Service District (Fayette County):**

Moody completed several ground water development activities for this client. An existing water supply well was rehabilitated due to heavy mineral (iron and scale) encrustation and extensive well drawdown. The well was rehabilitated in order to gain lost well yield to ensure shorter pumping cycles and to minimize well drawdown. Moody also conducted a ground water feasibility study to find favorable areas to install a supplemental water supply. Page Kincaid PSD and its engineering consultant are currently discussing future well site locations with local property owners. Moody will assist with the oversight of the drilling and testing of any future well sites.

- **Union Williams Public Service District (Wood County)**

Union Williams has been a client of Moody and Associates for ten years. Union Williams currently utilizes in excess of 300,000 gpd of water, all of which are produced from ground water supply wells completed in the alluvial sand and gravel deposits found along the Ohio River. Moody has completed numerous activities for the PSD, such as, well rehabilitation efforts, well drilling and reconstruction and wellfield and aquifer evaluations.



- **Private Site Development (Pendleton County)**

A private site development is in the process of construction. The site is found in an extremely difficult area to discover adequate ground water supplies. Prior to Moody's involvement, approximately twenty water supply wells were drilled to depths over 1300 feet in order supply an existing golf course and club house. Only two wells were found to have well yields in excess of 10 gallons per minute (gpm). Moody conducted an evaluation of existing data, a ground water feasibility study and hydrogeologic evaluation. Moody drilled one new water supply well and rehabilitated one existing well. These wells were evaluated and determined to be capable of producing yields in excess of 125 gpm or 180,000 gpd. These wells are currently moving through the regulatory permitting process.

## SUMMARY

Mr. Colebank is President and Chief Operating Officer of the firm. Mr. Colebank has been with Alpha Associates, Incorporated since 1985. He began his career with Alpha as a staff engineer and progressed through the ranks from Project Manager to his current position. Mr. Colebank has worked with diverse clients such as West Virginia University, City of Morgantown, The West Virginia Division of Highways, WVU Foundation and the Morgantown Municipal Airport, as well as numerous private clients. Since 1988, Mr. Colebank has been the Principal-In-Charge of many of the Civil Engineering projects developed at Alpha. In his current capacity, Mr. Colebank provides financial and administrative guidance for the day-to-day operations of the company while continuing to manage Civil Engineering Projects.

## PROFILE

Broad-based responsibilities in the following areas:

- Project Management
- Business Operations and Financial Management
- Quality Assurance/Quality Control
- Civil Engineering Project Management and Design
- New Business Development

## PROFESSIONAL HIGHLIGHTS

### PRINCIPAL-IN-CHARGE

Transportation Projects:

- Morgantown Municipal Airport-IDIQ Contract; Morgantown, WV
- Route 10 Relocation; Wyoming County, WV
- South High Street Bridge Replacement; Morgantown, WV
- Blackshere Bridge Replacement; Mannington, WV
- Lewis County High School Access Road and Bridge; Weston, WV
- University Avenue/Stadium Loop; Morgantown, WV
- West Buckeye Bridge; Blacksville, WV

Civil Engineering Projects:

- Monongalia General Hospital; Morgantown, WV
- WVU Research Park; Morgantown, WV
- West Virginia Medal of Honor Recipients Plaza; Hazelton, WV
- West Virginia Division of Highways I-77 Welcome Center; Williamstown, WV
- West Virginia High Technology Consortium Site Work; Fairmont, WV
- Greystone on the Cheat through Phase II; Morgantown, WV

Indefinite Delivery/Indefinite Quantity Contracts:

- Morgantown Municipal Airport Open End Contract; Morgantown, WV
- West Virginia Division of Highways Open End Contract; State of WV
- National Energy Technology Laboratories; Morgantown, WV
- West Virginia University Open End Contract; State of WV



## EMPLOYMENT HISTORY

**PRIVATE INDUSTRY:** 1985 – Present Alpha Associates, Incorporated  
1983 – 1985 Charles Townes and Associates, P.C.

**CORPS OF ENGINEERS:** 1983 US Army Corps of Engineers

## EDUCATION

**GRADUATE:** West Virginia University  
Masters – Business Administration; 1999

**UNDERGRADUATE:** West Virginia University  
BS – Civil Engineering; 1982

## QUALIFICATIONS

**LICENSE:** Professional Engineer:  
West Virginia, Pennsylvania, Maryland, Virginia, Ohio  
Professional Surveyor:  
West Virginia  
Certified Private Pilot

## AFFILIATIONS

**PROFESSIONAL:** West Virginia Society of Professional Engineers; Member  
American Society of Civil Engineers; Member  
National Society of Professional Engineers; Member  
Former NSPE/PEPP Governor of WV  
ACEC/WV; President

**CIVIC:** University High School Foundation; Charter Member; Current  
President  
Morgantown Area Chamber of Commerce; Past Chairman  
Arts Monongalia Board; Member  
Monongalia County MPO Technical Advisory Committee;  
Member  
Morgantown Area Economic Partnership; Member  
University High School Athletic Booster; Member  
Aircraft Owners and Pilots Association (AOPA)  
University High School Athletic Field Committee



## SUMMARY

Mr. Davison is the Vice President of Alpha Associates, Inc. Mr. Davison joined the firm in November of 1977. He became a principal of the firm and Vice President in 1980. He has designed numerous structures, including research facilities, post offices, religious facilities, commercial and office buildings, and educational and medical facilities. The West Virginia Society of Architects has recognized Mr. Davison for his excellence in architecture with design awards for the Engineering Research Building at West Virginia University in Morgantown, WV, Wheeling College Chapel in Wheeling, WV, Morgantown High School Addition in Morgantown, WV and the KCAD Professional Office Building located in Martinsburg, WV.

## PROFILE

Broad-based responsibilities in the following areas:

- Educational Architecture
- Medical Architecture
- Religious Architecture
- Quality Control
- Client Development
- New Business Development

## PROFESSIONAL HIGHLIGHTS

### PRINCIPAL-IN-CHARGE

Higher Educational Facilities:

- Agricultural Sciences Building Addition, West Virginia University; Morgantown, WV
- Prichard Hall Renovation, Fairmont State University; Fairmont, WV
- Engineering Research Building; Morgantown, WV
- National Research Center for Coal and Energy; West Virginia University; Morgantown, WV
- Student Leader Housing, West Virginia University; Morgantown, WV
- Galli Laboratory, West Virginia University; Morgantown, WV

K-12 Educational Facilities:

- Washington High School, Charles Town, WV
- Westside High School; Clearfork, WV
- Wyoming East High School; New Richmond, WV
- Lewis County High School; Weston, WV
- Morgantown High School Addition/Renovation; Morgantown, WV
- Ridgedale Elementary School Addition; Morgantown, WV



**PRINCIPAL-IN-CHARGE (con't):**

Miscellaneous Architectural Design:

- Upshur County Senior Opportunity Center; Buckhannon, WV
- West Virginia Medal of Honor Recipients Memorial Plaza; Hazelton, WV
- Cumberland Valley Railroad Depot (KCAD Properties Professional Office); Martinsburg, WV
- Harrison County Senior Center; Bridgeport, WV
- Ronald McDonald House; Morgantown, WV
- Jenkins Ford; Buckhannon, WV

**EMPLOYMENT HISTORY**

<b>PRIVATE INDUSTRY:</b>	1977 – Current	Alpha Associates, Incorporated
	1976 – 1977	Carl G. Baker, Architects
	1974 – 1976	Architectural Firm of Laurie and Green
	1966 – 1974	Michael S. Molnar Associates

**EDUCATION**

**UNDERGRADUATE:** Pennsylvania State University  
Bachelor of Architecture; 1973

**QUALIFICATIONS**

**LICENSE:** Registered Architect:  
West Virginia, Pennsylvania, Maryland, Virginia, Ohio  
NCARB Certified

**AFFILIATIONS**

**PROFESSIONAL:** American Institute of Architects  
West Virginia Society of Architects  
Council of Educational Facility Planners International  
American Arbitration Association  
Interfaith Forum on Religion, Art and Architecture

**CIVIC:** Main Street Morgantown

**AWARDS**

**DESIGN AWARDS:** West Virginia Society of Architects Design Awards:  
KCAD Professional Office Building  
Morgantown High School  
Engineering Research Building  
Wheeling College Chapel



## SUMMARY

Mr. Klein, in addition to Chairman and CEO, serves as Regional Manager and Civil Engineer of our Martinsburg Office. He has more than 34 years of experience in Civil Engineering Design, Construction Phase Services, Project Management and Operations Management. During the past nineteen years, Mr. Klein worked on numerous projects in the Eastern Panhandle including clients such as the Cities of Shepherdstown and Berkeley Springs; Public Service Districts in Berkeley County and Warm Springs; industries such as Halltown Paperboard and Millville Quarry and major developments including Liberty Business Park, Coast Guard Operations Systems Center and the Eastern Management Development Center.

## PROFILE

Broad-based responsibilities in the following areas:

- Municipal Engineering
- Site Planning
- Storm Water Management Engineering
- Water Distribution Systems
- Waste Water Collection and Treatment
- Eastern Regional Office Manager
- New Client Development

## PROFESSIONAL HIGHLIGHTS

### Civil Engineering Projects:

- Harpers ferry/Bollivar PSD; Design of Improvements to the Wastewater Treatment Plant
- Bradstone-Shenandoah Casting Plant Site Plan
- TB&H Ready-Mix Concrete Plant Site Plan
- The Woods Home Owners Association Water System Analysis
- NPDES Permit Modification and Warehouse Building, Halltown Paperboard Company, Halltown, WV
- Shepherd College Interceptor Sewer; Shepherdstown, WV
- Martinsburg Roundhouse Site Design; Martinsburg, WV
- Cumberland Valley Railroad Depot; Martinsburg, WV
- Wastewater Treatment Plant Addition, Halltown Paperboard Company; Halltown, WV
- Renovation of Main Sewage Pump Station, Corporation of Shepherdstown, WV
- Elevated Storage Tank/Water Mainline Extension, Berkeley Springs Water; Berkeley Springs, WV
- United States Coast Guard, Additional Parking lots/New Guard House, Martinsburg, WV



- Swift Transportation Truck Depot Site Plan
- Eastern Management Development Center; Shepherdstown, WV
- Water System Improvements, Phase 1, 2, and 3; Berkeley Springs, WV
- Rt 522 South, Water and Sewer System Extensions; Morgan County, WV
- Colonial Hills Subdivision; Jefferson County, WV
- Quail Ridge Subdivision; Berkeley County, WV

### EMPLOYMENT HISTORY

<b>PRIVATE INDUSTRY:</b>	1995 – Current	Alpha Associates, Incorporated
	1974 – 1995	Kelley, Gidley, Blair and Wolfe, Incorporated

### EDUCATION

**GRADUATE:** University of Charleston  
MBA - 1987

**UNDERGRADUATE:** West Virginia Institute of Technology  
BS – Civil Engineering; 1973

### QUALIFICATIONS

**LICENSE:** Civil Engineer:  
West Virginia, Maryland  
Professional Surveyor:  
West Virginia

### AFFILIATIONS

**PROFESSIONAL:** American Society of Civil Engineers  
National Society of Professional Engineers  
American Water Works Association  
WV Manufacturer's Association  
Water Pollution Control Federation

**CIVIC:** Main Street Martinsburg, Member  
Berkeley County Historical Association, Member  
Shepherdstown Rotary Club  
Shepherdstown Interfaith Volunteer Caregivers  
City of Martinsburg – Downtown Planning Committee



## SUMMARY

Mr. Buchanan is a Civil Engineer and Principal at Alpha Associates, Incorporated. He has more than 24 years of experience working in municipal engineering, storm water management, site planning, hydrologic and hydraulic analysis, wastewater collection systems design, water distribution systems design, booster station design, highway engineering, and traffic engineering.

## PROFILE

Broad-based responsibilities in the following areas:

- Highway Design
- Municipal Engineering
- Wastewater Collection
- Storm Sewer System Design
- Site Engineering
- Project Management

## PROFESSIONAL HIGHLIGHTS

### **PROJECT MANAGER:**

- Borough of Point Marion Engineer; Point Marion, PA
- Monongalia County Board of Education Sewage Treatment Plants; Monongalia County, WV
- North Fork Hughes River Recreational Facilities; Ritchie County, WV
- WVDOH Rest Areas Sewage Treatment Plants; Berkeley, Braxton and Lewis Counties, WV
- WVU Law School Parking Lot; Morgantown, WV
- Uvilla - Shepherdstown Road Project; Jefferson County, WV
- Wheatland Road Widening and Utility Relocation Project; Berkeley County, WV
- Clay - Battelle High School Sewer Line Extension; Monongalia County, WV
- Grade Road Design Study; Berkeley County, WV

### **CIVIL ENGINEER:**

- West Virginia Division of Highways I - 77 Welcome Center; Williamstown, WV
- West Virginia Medal of Honor Recipients Plaza; Preston County, WV
- South High Street Bridge; Morgantown, WV
- West Buckeye Acrow Bridge; Monongalia County, WV
- Elkins Bypass; Randolph County, WV





## EMPLOYMENT HISTORY

<b>PRIVATE INDUSTRY:</b>	1998 – Present	Alpha Associates, Incorporated
	1989 – 1998	Widmer Engineering, Incorporated
	1986 – 1989	Wiley and Wilson, P C
	1984 – 1986	Greiner Engineering Sciences, Incorporated
	Summer – 1983	West Virginia Department of Transportation, Division of Highways

## EDUCATION

<b>UNDERGRADUATE:</b>	West Virginia University BS – Civil Engineering; 1984
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## QUALIFICATIONS

<b>LICENSE:</b>	Professional Engineer: West Virginia, Pennsylvania, Maryland, Ohio
	Professional Surveyor: West Virginia



## SUMMARY

Mr. Luttrell has worked with Alpha Associates, Inc. since 1996. He is the chief structural engineer for Alpha on all projects at Alpha. Before coming to Alpha, Mr. Luttrell's graduate work resulted in several contributions to the cold-formed steel deck industry. His new method of analysis for non-uniform loads on composite concrete and cold-formed steel decks has been made a permanent part of the *Steel Deck Institute's* design manual. Mr. Luttrell also worked on projects that involved pre-stressed timber bridge research with the West Virginia University Constructed Facilities Center. Since coming to Alpha, Mr. Luttrell has had a significant involvement in the effort to begin utilizing modern composite materials in practical bridge applications. Two recent Alpha bridge projects have been designed using these innovative materials.

## PROFILE

Broad-based responsibilities in the following areas:

- Bridge Structural Design and Analysis
- Innovative Bridge Materials Applications
- Building Structural Design and Analysis

## PROFESSIONAL HIGHLIGHTS

### STRUCTURAL ENGINEER:

- Hazel Ruby McQuain Amphitheater Roof, Morgantown, WV
- West Buckeye Bridge, Core, WV
- South Jefferson High School, Charles Town, WV
- WVU Coliseum Asbestos Abatement Project (Scaffolding Design and Dome Structural Inspection); Morgantown, WV
- Morgantown Airport Air Rescue and Firefighting Building; Morgantown, WV

### PROJECT MANAGER:

Bridge Design:

- Blackshere Bridge; Mannington, WV
- South High Street Bridge; Morgantown, WV
- Market Street Bridge; Wheeling, WV
- West Buckeye Bridge; Core, WV
- Simpson Creek Covered Bridge; Marion County, WV
- Fletcher Covered Bridge; Marion County, WV
- Elkins Bypass, Spur A Bridge; Elkins, WV



**CHARLES B. LUTTRELL, PE**  
PRINCIPAL  
PROFESSIONAL ENGINEER -  
STRUCTURES  
cluttrell@alphaaec.com

## EMPLOYMENT HISTORY

**PRIVATE INDUSTRY:** 1996 - Current Alpha Associates, Incorporated  
1995 - 1996 Larry D Luttrell, PE, Ph D  
1991 - 1994 West Virginia University  
1990 - 1991 WVU Constructed Facilities Center

## EDUCATION

**GRADUATE:** West Virginia University  
MS - Structural Engineering; 1995

**UNDERGRADUATE:** West Virginia University  
BS - Civil Engineering; 1993

## QUALIFICATIONS

**LICENSE:** Professional Engineer;  
West Virginia, Maryland

## AFFILIATIONS

**PROFESSIONAL:** West Virginia Society of Professional Engineers  
National Society of Professional Engineers  
Chi Epsilon; Member  
American Concrete Institute; Member  
Structural Engineering Certification Board

## RESEARCH EXPERIENCE

**STRUCTURAL:** Cold Formed Steel Deck Research

- Fastener failures
- Edge conditions/failures
- Buttoned overlap shear failures

Composite Cold Formed Steel and Concrete Deck Research

- Line load behavior/failures
- Concentrated load behavior/failures
- Web crippling
- Punch failures



## SUMMARY

Ms Key has worked in the architectural field for 30 years. Ms Key is Project Architect/Manager for numerous architectural designs at Alpha Associates, Inc. She is involved from the programmatic stages and schematic designs all the way through construction documents to construction administration.

Prior to joining Alpha, Ms Key initiated and developed her own architectural and interior design business. The 16 years she devoted to her own firm resulted in projects ranging in size from 450 to over 40,000 square feet of space and located in 20 states across the country. In addition to architecture, she provided interior design services to major East Coast retirement communities and nursing homes. Introducing various hospitality concepts into the dining and lodging spaces.

## PROFILE

Broad-based responsibilities in the following areas:

- Architecture
- Interior Design
- Interior Space Planning
- Historic Renovation

## PROFESSIONAL HIGHLIGHTS

### ALPHA ASSOCIATES

#### Educational Facilities:

- Washington High School Interiors Package; Charles Town, WV
- WVU South Agricultural Sciences; Morgantown, WV
- Prichard Hall Renovation; Fairmont State College; Fairmont, WV
- WVU Boreman Bistro Dining/Kitchen; Morgantown, WV

#### Industrial Facilities:

- Hart Field Airport Maintenance Building; Morgantown, WV
- Norwood Fire Station; Morgantown, WV
- FMW Composites, Inc ; Bridgeport, WV
- Hart Field Terminal Renovation; Morgantown, WV

#### Medical Facilities:

- Ruby Memorial Hospital Emergency Addition; Morgantown, WV
- BSGG Dental Complex; Morgantown, WV



Miscellaneous Architectural Design:

- West Virginia Medal of Honor Recipients Plaza; Hazelton, WV
- Hazel Ruby McQuain Riverfront Park Amphitheater Roof; Morgantown, WV
- Municipal Building; Whitehall, WV

**EMPLOYMENT HISTORY**

<b>PRIVATE INDUSTRY:</b>	2000 - Current	Alpha Associates, Incorporated
	1983 - 1999	Environmental Planners and Associates, LTD; President
	1978 - 1983	Webster Clothes; Director of Store Planning

**EDUCATION**

<b>UNDERGRADUATE:</b>	University of Maryland Bachelor of Architecture; 1977
<b>POST GRADUATE:</b>	Maryland Institute College of Art Coursework in Furniture Design; 1986-1987

**QUALIFICATIONS**

<b>LICENSE:</b>	Registered Architect West Virginia, Maryland, Washington DC, New York, Virginia, Pennsylvania National Council of Interior Design Qualifications Certificate Holder
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**AFFILIATIONS**

<b>PROFESSIONAL:</b>	American Institute of Architects; Member AIA Livable Communities; Board Member
<b>CIVIC:</b>	Fairmont, WV BOCA Board of Appeal; Board Member



## SUMMARY

Ms. Simmons has worked as an Architectural team member and directly with end users. The scope of her work involves a wide range of interior design and includes corporate, educational, churches, hospitals, dental and health care projects. The scope of Ms. Simmons' services includes input at the Schematic Design Phase (Plan Layout) as well as selection of colors, finishes, furniture, and design of custom built-in casework. She can also coordinate purchase and installation of furnishings and accessories.

## PROFILE

Broad-based responsibilities in the following areas:

- Interior Design
- Interior Space Planning

## PROFESSIONAL HIGHLIGHTS

### ALPHA ASSOCIATES

Educational Facilities:

- Lewis County High School
- Aurora Elementary
- Morgantown High School
- Anna Jarvis Elementary
- WVU Student Leader Housing
- Grafton High School
- Buchannon-Upshur Middle School
- 

Commercial Facilities:

- Clear Mountain Bank - Multiple Branches
- BC Bank
- Fairmont Federal Credit Union

Medical Facilities:

- Health Sciences Center Family Practice
- Physicians Office Center - Multiple Projects
- Health Sciences Center Central Administrative Department
- Health Sciences Center School of Medicine
- Health Sciences Center School of Pharmacy
- WVU - Eastern Division



Miscellaneous Architectural Design:

- Wassick Novelty Company
- Hart Field Terminal
- Preston County Sheltered Workshop
- Summersville Municipal Building
- Morgantown Dental Group
- Avery United Methodist Church

EMPLOYMENT HISTORY

<b>PRIVATE INDUSTRY:</b>	1994 - Current	Alpha Associates, Incorporated
	1991-1994	Keystate, Incorporated
	1989-1991	Herman Miller

EDUCATION

**UNDERGRADUATE:** Florida State University  
Bachelor of Interior Design; 1989



## SUMMARY

Mr. Pritts joined the Alpha Associates staff as an intern architect in the Morgantown office in 2004. Since arriving at Alpha, he has gained valuable experience in educational design and programmatic development.

## PROFILE

Broad-based responsibilities in the following areas:

- Educational Design
- Programmatic Development
- Civic Design
- Commercial Design
- Green Building Design

## PROFESSIONAL HIGHLIGHTS

### ALPHA ASSOCIATES

Architectural Design:

- Potomac State College, ADA Connector Link; Keyser, WV
- Fairmont Federal Credit Union, Charles Pointe; Bridgeport, WV
- Washington High School; Charles Town, WV
- WVU Engineering Sciences, East Wing Addition; Morgantown, WV
- Wallace Fire Department; Wallace, WV

## EMPLOYMENT HISTORY

<b>PRIVATE INDUSTRY:</b>	2004 - Current	Alpha Associates, Incorporated
	2003 - 2004	Marshall Craft Associates, Baltimore, MD

## EDUCATION

<b>UNDERGRADUATE:</b>	Virginia Tech Bachelor of Architecture; 2004
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## QUALIFICATIONS

<b>LICENSE:</b>	Registered Architect: West Virginia
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AFFILIATIONS

PROFESSIONAL:

AIA Member  
USGBC - US Green Building Council  
AUGI - Autodesk User Group International



## SUMMARY

Mr. McClung comes to Alpha Associates, Inc. after spending ten years in public service. He was formerly the Marion County Planner and his most recent position was Assistant Planner for the City of Fairmont. During his tenure in municipal government, Mr. McClung has worked on grant writing and administration, comprehensive planning and code enforcement. Prior to working in municipal government, Mr. McClung worked in the field of historic preservation as a delineator for the Eberly College of Arts and Sciences Institute for the History of Technology and Industrial Archaeology at WVU.

## PROFILE

Training and expertise in the following areas:

- Landscape Design
- Historic Landscape Preservation
- Delineation to HABS/HAER Standards
- Grant Writing
- Grant Administration
- Zoning Administration
- Comprehensive Planning

## PROFESSIONAL HIGHLIGHTS

### **Delineator:**

- Supervised field teams and office staff delineating historic industrial sites, processes, and structures to the Secretary of the Interior's Standards for Historic American Building Survey/Historic American Engineering Record.
- Supervised field team for the study and preservation of historic landscapes as a supplement to the Nomination of the Skyline Drive to the National Register of Historic Places.

### **Zoning Administrator:**

- Collaborated with the City Planner, City Attorney, and City Planning Commission to draft and facilitate the adoption of a substantive amendment to the City of Fairmont Zoning Code.
- Collaborated with City Planner and Planning Commission of the substantive amendment of the City of Fairmont Zoning Map.
- Provide staff reports and technical assistance to the Fairmont Board of Zoning Appeals on Variance and Appeals hearings.
- Provide zoning assistance to builders, and general public on a daily basis.



**Planner:**

- Collaborated with the City Planner, and Planning Commission to draft and facilitate the adoption of the ten year update of the City of Fairmont Comprehensive Plan
- Written applications, and administered Small Cities Block Grant, Department of Justice Grant, Governors Community Partnership, and Local Economic Development Assistance Grant, Transportation Enhancement, and Recreational Trail Grants

**EMPLOYMENT HISTORY**

<b>PRIVATE INDUSTRY:</b>	2008	Alpha Associates, Incorporated
	2002-2008	City of Fairmont
	1997-2002	Marion County Commission
	1990-1997	IHTIA Eberly College of Arts and Sciences WVU
	1998-1989	Landscapes Unlimited

**EDUCATION**

**UNDERGRADUATE:** West-Virginia University  
BS - Landscape Architecture; 1991

**AFFILIATIONS**

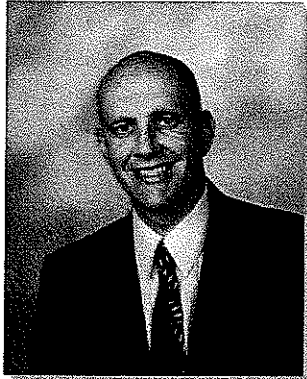
- CIVIC:**
- American Planning Association; Member
  - West Virginia Planning Association; Member
  - Habitat for Humanity, Marion County Affiliate Board Vice President





## *Phillip L. Gentry, PE*

*Director of Building Systems*



### **Education**

- Bachelor of Science, Mechanical Engineering
- Purdue University - 1984

### **Licensure**

- Engineering - Virginia - 1995
- Engineering - West Virginia - 1999
- Engineering - Pennsylvania - 2002
- Engineering - North Carolina - 2002
- Engineering - Maryland - 2002
- Engineering - New Jersey - 2002

### **Years Experience**

- VESP: Current
- SES: 2000 - 2005
- Riddleberger Bros., Inc : 1991 - 2000
- R.R. Donnelley & Sons: 1984 - 1991

### **Professional and Community Affiliations**

- American Society for Healthcare Engineering (ASHE)
- The American Society of Mechanical Engineers (ASME)
- American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)
- National Fire Protection Association (NFPA)

As the director of Building Systems, Phil Gentry is genuinely dedicated to raising the expectation and impression of consulting engineers. Phil has 23 years of combined experience related to industrial machine design, mechanical contracting and mechanical/electrical/plumbing systems design. His broad experience base provides unique skills in master planning, feasibility studies, estimating, existing building surveys, problem solving, building systems design, building controls and an ability to quickly understand how designs fit within any given project.

Phil's knowledge and skills have developed through a wide range of projects including industrial, healthcare, nursing home, professional office, education, religious, historic, residential and retirement community. He enjoys the challenge each project provides and strives to lead design teams with project management skills developed through a variety of experiences.

Phil's Building Systems professional experience includes:

#### ■ Plumbing Systems

- Domestic Hot and Cold Water Systems
- High and Low Pressure Air Systems
- Sanitary and Vent Systems
- Process Water System
- Medical Gas Systems

#### ■ HVAC Systems

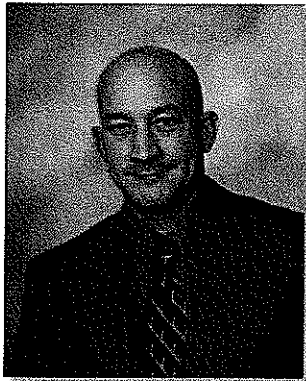
- Single Zone HVAC Systems (DX)
- Steam and Condensate Systems
- Heating Hot Water Systems
- Chilled Water Systems
- VAV Systems
- Controls

#### ■ Electrical Systems

- Uninterruptible Power Supplies (UPS)
- Normal and Emergency Power
- Switchgear
- Lighting

# VESP

VALLEY ENGINEERING  
SURVEYING PLANNING



## Education

- Bachelor of Science, Electrical Engineering
- West Virginia Institute of Technology - 1992

## Licensure

- EIT - Virginia - 1992

## Years Experience

- SES: 2001 - 2005
- Broadway Electric: 1992 - 2001

## Professional and Community Affiliations

- Massanutten Technical Center Continuing Education Instruction: 1999 - 2004

## *William S. Bennett, EIT*

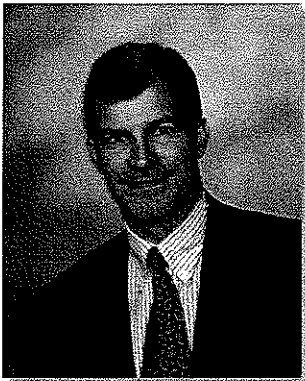
*Electrical Engineer, Project Manager*

Mr. Bennett's responsibility encompasses completing electrical systems design for a variety of Valley Engineering's market segments. The diversity of work Scott has experienced provides an opportunity to apply an assortment of design techniques to any given project. His desire to provide accurate design documents is evident with every project as he finds ways to improve his own skill set while working with the design team to prepare cost effective and complete design documents.

Scott has been a consulting engineer for 7 years. Prior to moving into the consulting field he was employed by a local electrical contracting firm. His responsibilities included estimating, project management and electrical systems design. This varied background allows Scott to complete economical electrical designs for industrial, institutional, educational, healthcare, professional office, commercial, historic, religious, shopping center, nursing home and assisted living communities.

Scott's Building Systems design experience includes:

- Electrical Systems Design
  - Generator & Automatic Transfer Switches
  - Hospital Life Safety, Critical Branch and Equipment Branch Electrical Distribution
  - Uninterruptible Power Supplies (UPS)
  - Lighting Control Systems
  - Main Electrical Service
  - Building Lighting
  - Normal Power
  - Site Lighting
  - Switchgear
  - Fire Alarm
- Building Surveys
  - Existing Service Capacity Assessment
  - Existing Generator Size Assessment
  - Existing Building Riser Diagram Development
  - Existing Lighting Assessment



**Education**

- o Bachelor of Science, Mechanical Engineering
- o Virginia Polytechnic Institute and State University - 1983

**Licensure**

- o Engineering - Virginia - 1987

**Years Experience**

- o VESP: Current
- o SES: 2003 – 2005
- o Other: 21

**Professional and Community Affiliations**

- o Young Life Local Area Committee - 5 years
- o Young Life Local Area Treasurer - 3 years

***Norman Clark, PE***

*Assistant Director of Building Systems – Mechanical  
Project Manager*

Mr. Clark's primary responsibility includes completing high end HVAC systems design for demanding projects. While Norman's focus is on HVAC systems design he also is responsible for office productivity, coordinating design disciplines, coordinating drafting tasks, coordinating project schedules and training younger engineers. Norman has 25 years of design experience as a consulting engineer. The breadth of his experience is apparent in the quality and speed of his design work. Norman strives to complete projects in a timely cost effective fashion while developing design documents with excellent content for contractor interpretation.

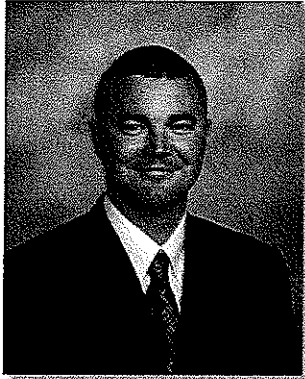
Architects often express their appreciation of Norman's focus relative to coordinating chase sizes, equipment location, ceiling heights and team communication skills. Moreover contractors and owners express their appreciation of his ability to create cost effective and competitive design documents. Projects such as healthcare, nursing home, professional office, religious and retirement community highlight his design skill set. He treats every project, large and small, like it is his own and approaches every project with equal enthusiasm.

Norman's Building Systems professional experience includes:

- HVAC Systems Design
  - o Single Zone HVAC Systems (DX)
  - o Steam and Condensate Systems
  - o Heating Hot Water Systems
  - o VAV and CV Air Systems
  - o Chilled Water Systems
  - o Controls
- Plumbing Systems Design
  - o Domestic Hot and Cold Water Systems
  - o Sanitary and Vent Systems
  - o Storm Drainage Systems
  - o Gas Piping

# VESP

VALLEY ENGINEERING  
SURVEYING PLANNING



## Education

- Bachelor of Science,  
Civil Engineering
- Fairmont State College  
- 2000

## Licensure

- EIT - Virginia - 2003

## Years Experience

- VESP: 2000 - Current

## Professional and Community Affiliations

- American Society of  
Civil Engineers

***J.W. Hawk, EIT***  
*Project Engineer*

Mr. Hawk is responsible for plan development and design for residential, commercial, and business sites. He manages projects from conception to completion. He specializes in engineering design and analysis, cost estimates, and the design of public and private infrastructure.

Mr. Hawk's design experience includes:

- Project Management
  - Works closely with the Client and provides updates of project status
  - Project coordination with architects and other design professionals
  - Coordination with regulatory agencies to ensure a feasible design is provided which is in compliance with all applicable standards
  - Construction Management: shop drawing review, construction observation, client and contractor project coordination meetings
- Land Development / Site Design
  - Utility/Distribution Layout and Design
  - Grading Plans (Balance Cut and Fill)
  - Water System Analysis and Design
  - Pump Station Design and Analysis
  - Erosion and Sediment Control Plans
  - Stormwater Management
  - Value Engineering
  - ADA Compliance
  - Sanitary Sewer
  - Water Quality
  - Fire Coverage
  - Storm Sewer
- Roadway Design / Traffic Analysis
  - Roadway Capacity / Turn-Lane Analysis
  - Vertical and Horizontal Alignment
  - Pavement Design
  - Parking Analysis
  - Public Safety

**B. CRAIG MILLER, PE**  
**PRESIDENT**  
**ENGINEER IN RESPONSIBLE CHARGE**

**EDUCATION** Bachelor of Science in Mechanical Engineering,  
West Virginia University - 1995  
Bachelor of Arts in Mass Communication,  
University of Charleston (WV) - 1988

**REGISTRATIONS** Professional Engineer, West Virginia  
Professional Engineer, Pennsylvania  
Professional Engineer, Maryland

**QUALIFICATIONS** Craig has more than 10 years' experience in the design, specification, and construction/ project management of mechanical, electrical, and plumbing systems and 10 years experience in facilities operations, maintenance, and management. He specializes in retrofits and upgrades to existing systems and what he terms "operational engineering" or implementing changes to, while maintaining the operational requirements of, a facility or system. He has worked extensively in the educational/ institutional environment including spending several years as a systems mechanic performing various trades work prior to obtaining his engineering education. His trades work gives him a distinctive "hands on" approach to engineering application and design.

Prior to founding MEI, Craig worked as a staff engineer for Casto Technical Service (Trane) performing engineering evaluation and design on various mechanical system upgrades including: Marion County Courthouse, Davis & Elkins Student Union, Charleston Area Medical Center, Women's and Children's Hospital, and Wetzel County Hospital. Preceding his time with Casto Technical, Craig spent two years at Uniontown Hospital as Assistant Director of Engineering. He managed the day-to-day operations of maintenance personnel, managed projects and performed operational engineering service to the facility mechanical, electrical, and plumbing systems. His principal operational engineering foci were the hospitals' steam, chilled water, air handling infrastructure and their associated control systems. He managed real-time upgrade projects to the hospital facilities and the full





accreditation review of hospital systems operation and maintenance.

Craig worked as a staff engineer at West Virginia University Physical Plant for six years. During that time he managed multiple facility and infrastructure upgrade projects, performed engineering design, assisted maintenance personnel with operational issues, and managed the University's Energy Program. Additionally, he served as the Owner's design review engineer on approximately \$130 million in new capital construction. Craig's WVU projects included mechanical, electrical, plumbing, infrastructure, control, and energy systems repair and maintenance totaling approximately \$20 million.

Prior to his position at WVU, Craig worked in operations and facility maintenance for the Morgantown Board of Parks and Recreation while attending the WVU School of Engineering. He performed mechanical and electrical systems maintenance duties and associated engineering design work while helping to maintain and upgrade the park systems' facilities. Craig started his mechanical systems career as an apprentice and then as a maintenance systems mechanic in the Physical Plant at the University of Charleston.

**CHUCK LEMLEY, PE**  
**SENIOR STAFF ENGINEER**

**EDUCATION**

Bachelor of Science in Electrical Engineering,  
West Virginia University - 1989

**REGISTRATIONS**

Professional Engineer, West Virginia  
Professional Engineer, Pennsylvania  
Professional Engineer, District of Columbia

**QUALIFICATIONS**

Chuck has worked for MEI on a part time basis on several projects over the last few years and is in transition to a full time position as a senior staff engineer.

Chuck has 20 years experience in the electrical industry with much of that time spent as a distribution and customer service engineer for a local utility. His great experience in high voltage distribution systems including substations, scada systems, and lines distribution systems design make him one of the best power systems designers in the region. The time Chuck has spent working with major account customers has given him a vast and detailed understanding of the needs of commercial and industrial clients in regards to power systems and electrical distribution. While implementing construction projects for power company customers, he learned the "nuts and bolts" of power systems construction. During his tenure with a local electrical contractor, he also refined his skills relating to low voltage (600V & below) power distribution systems and related construction requirements and practices.

Chuck brings an operational knowledge to his design work which results in a reliable, cost effective result for the client.



**BRANDON MERRIMAN FE**  
**MECHANICAL DESIGNER**

**EDUCATION**

Bachelor of Science in Mechanical Engineering  
West Virginia University – May 2006

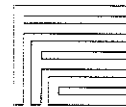
**QUALIFICATIONS**

Brandon is a graduate of the West Virginia University College of Engineering. Brandon assisted in the design and construction administration of multiple projects as an Engineering Intern during the summer of 2005 and his senior year at WVU. His work has proven invaluable and he possesses a keen ability to grasp and apply new information.

Brandon has come to MEI with an excellent academic record and a willingness to learn that seen him grow to be a highly valuable member of our team in a short period of time. His experience in the Engineering Projects with Industry while at WVU significantly increased his professional experience. Brandon's long term goal is to obtain his Professional Engineer's license and continue consulting.

**REGISTRATIONS**

Fundamentals of Engineering, West Virginias PE  
Board – April 2006



## DESIGN TEAM RESUMES

*The following list represents the key personnel that will be involved in this project and a brief description of their qualifications*

### *• Principal In Charge*

**Michael Taylor**, as the co-founder of Food Facilities Concepts, Inc., has been working in the food service equipment field all of his working years and is the principal in charge of all kitchen projects for the firm. As a student, he worked in a food service equipment warehouse. After graduating from West Virginia University with a Bachelor of Science degree in Business Administration, he moved into food service equipment sales, which involved complete installation projects. Over the years, his involvement has evolved into food service design for comprehensive facilities, which service multi-unit institutions. Michael's full time experience in this field totals 27 years.

### *• Design Coordinator*

**Robert B. Gustafson**, co-founder of Food Facilities Concepts, Inc. initially was trained as a commercial interior designer at the Art Institute of Pittsburgh. Prior to entering the food service design field 25 years ago, he was involved in the interior design of public spaces, nurse's stations, offices and work areas for colleges, universities, hospitals, banks, libraries, and corporate offices. Since entering the food service design field, Bob has evolved from the interior design of the dining areas, to space planning and design for intricate serving areas, including the design of all custom components. His design experience totals 35 years.

### *• Project Manager*

**Michael Ventresca**, a professionally trained CADD technician, oversees the production of all drawings and schedules. Mike has experience in coordinating major food service equipment installations. This hands-on background enables him to provide documents that are complete and accurate, thus assuring total coordination with related building systems and an efficient installation of the project. Mike has 7 years full time experience in the food service equipment industry.

### *• Project Coordinator*

**Mary Ann Gustafson** also with Food Facilities Concepts, Inc. since its inception, has been associated with food service equipment for 26 years. Prior to this, she started out as a manager for a food service equipment distributor, moved into equipment sales and then a manufacturer's representative calling on food service equipment dealerships. She will coordinate all food service equipment documentation.

**JEFFREY P. WALENTOSKY, P.G.  
SENIOR GEOLOGIST**

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**Responsibilities**

Management and completion of ongoing projects and investigations, mainly focusing on ground water issues throughout Pennsylvania, West Virginia, New York and Ohio. Conduct all aspects of geological studies related to ground water supply management and development, regulatory permitting of municipal and residual waste disposal, remedial investigations and site characterizations, regulatory compliance and ground water/soil remediation projects. Mr. Walentosky is also very involved with business development and proposal preparation efforts.

**Experience**

Mr. Walentosky has benefited from being involved in and directing a wide variety of projects in the eighteen plus years that he has been with Moody. His project experience includes the following:

- ❖ **SITE INVESTIGATIONS AND REMEDIATION PROJECTS**
  - ❑ Conduct Hazardous/Non-Hazardous Site Characterizations And Remedial Investigations
  - ❑ Conduct Phase I, II & III Environmental Site Assessments
  - ❑ Completion of Brownfield Redevelopment Site Closure & Remediation Projects
  - ❑ Design, Installation and Operation of Soil, Soil Vapor and Ground Water Remediation Systems
  - ❑ Provide staff oversight for on-going remediation and site investigation projects
  - ❑ Conduct investigations of water quality/quality diminution claims from oil/gas well drilling and coal mining activities
  
- ❖ **REGULATORY PERMITTING**
  - ❑ Geological, Hydrogeological and Soil Evaluations For Municipal and Residual Waste Disposal Sites
  - ❑ Municipal Waste Landfill Permit Reviews
  - ❑ NPDES Permitting & Permit Reviews
  - ❑ Assisting Clients in Proper Disposal of Hazardous/Non-Hazardous Waste Streams
  
- ❖ **WATER SUPPLY DEVELOPMENT**
  - ❑ Predrilling Plans/Hydrogeologic Studies for Future Municipal and Industrial High Capacity Water Supply Wells
  - ❑ Test & Production Well Design and Installation
  - ❑ Supervision of Test & Production Well Drilling With Air Rotary, Fluid Rotary, Cable Tool and Auger Drilling Equipment
  - ❑ Aquifer/Pumping Test Evaluations

- Well Field Maintenance, Rehabilitation & Monitoring Studies
- Well Field Impact Studies
- Completion of Wellhead Protection (WHP) Studies
- Assistance in Permitting Water Supplies For Bottled Water Purposes
- Expert Witness Testimony

**Publications**

Waite, B.A. and Walentosky, J.P., *Impacts of Land Surface Discharge of Shallow Oil Field Production Water on Ground Water*, 1997.

**Education**

B.S. in Geology and Geography, Clarion University of PA, 1990

**Certifications**

Pennsylvania Registered Professional Geologist (PG-003682-E)  
40 Hour Hazardous Waste Site Training  
(Complies With OSHA 29 CFR.120)  
8 Hour Hazardous Waste Site Supervisory Training  
24-Hour MSHA Training (Complies with MSHA 30 CFR. 46)  
Pennsylvania Land Recycling Program Training  
ASTM Phase I/II Environmental Site Assessment Training

**Professional Organizations**

American Water Works Association (Pennsylvania Section)  
West Virginia Rural Water Association  
Pennsylvania Rural Water Association  
Air & Waste Management Association



**WILLIAM GOUGH, P.G.**  
**Senior Geologist**

**Responsibilities**

Conduct all aspects of geological studies related to; ground water supply development, regulatory permitting of hazardous, municipal and residual waste disposal and compliance with applicable state and federal environmental regulations. Supervise, instruct and direct in-house geological and technical staff of 16 professionals in completion of projects as listed below

**Experience**

Mr Gough has provided geological and hydrogeological expertise and expert testimony for an extensive variety of projects for Moody and Associates, Inc. throughout the past 34 years. Extensive project experience includes the following:

- ❖ WATER SUPPLY DEVELOPMENT
  - ❑ Geological Studies for Well Site Location
  - ❑ Test Well and Production Well Drilling
  - ❑ Ground Water Resource Studies
  - ❑ Aquifer Evaluations
  - ❑ Well Field Maintenance and Monitoring
  - ❑ Well Head Protection
  
- ❖ REGULATORY PERMITTING
  - ❑ Geological, Hydrogeological and Soil Evaluations For Municipal and Residual Hazardous and Demolition Waste Storage and Disposal Sites
  - ❑ NPDES Permitting
  - ❑ Mining Permits
  
- ❖ SITE INVESTIGATIONS
  - ❑ Federal and State Superfund
  - ❑ RCRA/CERCLA Investigations
  - ❑ RI/FS Review Aquifer/Pumping Test Evaluations
  - ❑ Environmental Audits and Assessments

**Education**

M.S. Geology, Pennsylvania State University 1977  
B.S. Geology Mount Union College 1971

**Certifications**

Pennsylvania Registered Professional Geologist (PG-000641-G)  
40 Hour Hazardous Waste Site Training  
(Complies With OSHA 29 CFR.120)

**Professional Affiliations**

Pennsylvania Council of Professional Geologists (Board of Directors)  
American Water Works Association (AWWA) Board of Directors and



**BURT A. WAITE, P.G.**  
**Senior Associate**

**Responsibilities**

Mr. Waite is the senior geologist and director of environmental services at Moody and Associates. He directs a staff of geologists and hydrogeologists relative to ground water resource development, liquid and solid waste management, subsurface contamination identification and remediation and regulatory compliance. In the past 34 years Mr. Waite has worked closely with natural resource developers (primarily the petroleum and mining industries) to minimize adverse impacts on ground and surface water resources while encouraging full development of the resources.

**Experience**

Mr. Waite has directed a wide variety of regional and site specific ground water investigations involving water resource development and management, contaminated site investigations, and remediation projects. Mr. Waite has also managed numerous drilling and exploratory projects involving air rotary, fluid rotary, cable-tool, coring and auger equipment. Business development and proposal preparation are a part of Mr. Waite's tasks. Mr. Waite's experience with Moody & Associates, Inc. spans 34 years.

❖ **MINE HYDROGEOLOGY**

In the 1980's Mr. Waite worked with the environmental regulatory agency on behalf of the mining industry in Pennsylvania to develop reasonable and effective surface and ground water monitoring programs in and around active and abandoned mines. Since that time Mr. Waite has consulted with many of the underground operators to minimize impacts of mining on water resources. This has included predicting hydrologic consequences in advance of mining, evaluating mine water outbreak problems and working with the mining engineers to minimize short, deep mine permitting and long term impacts. Mr. Waite has served as an expert witness in a variety of mining disputes.

❖ **OIL AND GAS MANAGEMENT**

In 1982 Mr. Waite directed the Oil and Gas Pollution Abatement Project on behalf of the Pennsylvania Department of Environmental Resources. This study identified the environmental concerns associated with drilling, stimulation and production of oil and gas wells and inventoried solid and liquid waste management alternatives.

Mr. Waite has directed several Limited Partnership oil development projects in Pennsylvania. Responsibilities included well location and permitting, logging, stimulation and production of oil from the shallow reservoirs in western Pennsylvania.

In 1996, Mr. Waite directed an investigation quantifying the impacts of produced brine discharges on ground water resources in the oil fields of Pennsylvania. In



addition, he managed a team of scientists conducting a demonstration project of passive wetland treatment of oil well brine.

Mr. Waite currently serves on the Pennsylvania Department of Environmental Protection's Oil and Gas Technical Advisory Board and serves on the Board of Directors for the Pennsylvania Oil and Gas Association.

❖ SITE INVESTIGATIONS

- ❑ Federal and State Superfund Site
- ❑ Hazardous and Non-hazardous Site Studies and Remediation
- ❑ Environmental Audits and Assessments

❖ REGULATORY PERMITTING

- ❑ Hazardous, Municipal and Residual Waste Permitting
- ❑ Mining and NPDES Permitting - Site Closure Studies

❖ GROUND WATER SUPPLY DEVELOPMENT

- ❑ Regional and Local Geologic Studies and Evaluations
- ❑ Test Well Design and Installation and Aquifer Evaluation

**Publication**

*Ground Water Monitoring of Underground Coal Mines*, prepared for the 1980 National Convention of the American Institute of Mining Engineers.

*Oil and Gas Well Pollution Abatement Project*, five volume study completed for the Pennsylvania Department of Environmental Resources, 1982.

*Management of Oil and Gas Production Brines in the Allegheny Basin*, Northeastern Environmental Science, V. 7, No. 2, p. 99-104, 1988.

*Oil and Gas Waste Fluids of Pennsylvania*, Northeast Environmental Science, V. 7, No. 2, p. 105-110, 1988.

*Environmental Assessments. A Step in Property Transfer*, Northwest Pennsylvania Business Alliance Magazine, 2nd Quarter, p. 11, 1990

Waite, B.A ; Walentosky, J. P. *Impacts of Land Surface Discharge of Shallow Oil Field Production Water on Ground Water*, 1997.

The Response of a High Order Stream to Shallow Cover Longwall Mining in the Northern Appalachian Coalfield, 20<sup>th</sup> International Conference on Ground Control in Mining, 2001.

Effects of Longwall Mining on Ground Water and Surface Water Resources, Society for Mining Metallurgy and Exploration and Pittsburgh Coal Mining Institute of America – Annual joint Meeting, October 24, 2003.

Stream Flow Replacement: A Case Study in Southwestern Pennsylvania; Appalachian Region Technology Transfer: Hydrologic Issues Workshop. Sponsored by the Federal Office of Surface Mining. August 3-5, 2004.

Environmental Issues as They Relate to the Transfer of Oil and Gas Properties,  
Independent Oil and Gas Association of Pennsylvania, May 17, 2005.

Preventing Gas Migration Into Fresh Water Aquifers, Pennsylvania Oil and Gas  
Association, Environmental Seminar, April 17, 2007

**Education**

M.S. in Geology, University of Vermont 1971  
B.A. in Geology, College of William and Mary 1969

**Certifications**

Pennsylvania Registered Professional Geologist (PG-000154-G)  
40-Hour Hazardous Material Training (OSHA)  
8-Hour Hazardous Materials Supervisor's Course  
Certified Geologist - Pennsylvania, Indiana and North Carolina  
Pennsylvania Council of Professional Geologists

**Professional Affiliations**

PA Department of Environmental Protection – Citizens Advisory Council  
Pennsylvania Coal Association – Technical Committee  
PA DEP Mining and Reclamation Advisory Board  
PA DEP Oil and Gas Technical Advisory Board  
Pennsylvania Oil and Gas Association - Board of Directors  
Cochranon Borough – Mayor

**WILLIAM B. WRIGHT, PG**  
**Senior Geologist/General Manager**

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**Responsibilities** Mr. Wright is currently the General Manager of Moody's Houston, PA office. He oversees a staff of 22 professionals. He is responsible for business planning and development and daily operations including general project direction. He is also involved in the direct management of numerous phases of the environmental and mining services projects. Responsibilities span the mining, oil and gas development, petroleum, manufacturing, and waste disposal industries. Responsibilities include the direct preparation and review of technical reports and various permits to state and federal agencies. He is also responsible for maintaining familiarity with state and federal laws and regulations governing mining, oil and gas, waste disposal, and watershed protection. Additional responsibilities include maintaining regulatory contacts and managing technical staff and contractors.

**Experience (30 years)** Mr. Wright has directed environmental site assessments and site characterizations on numerous properties, including investigation of underground storage tanks (USTs) hazardous materials, and hazardous wastes. Projects ranged from small commercial properties to corporate division properties approximating 90,000 acres. Mr. Wright has designed and directed exploratory drilling programs, sampling programs, monitoring well installation and correlation of geologic and hydrologic data. He has developed and implemented work plans for hydrogeologic investigations, prepared hydrologic impact reports for contaminant migration and groundwater supplies, and designed and supervised installation of water supply wells. He has utilized various types of equipment and has a practical knowledge of sampling methodology and analytical testing. He also was instrumental in setting up a laboratory to test and analyze soil, coal, and water. Other responsibilities have included the review and selection of remedial options and methods for contaminated site cleanup.

Mr. Wright has experience in surface and ground water evaluations and assessments, interpretation of site data, planning, and design. He has managed several comprehensive watershed assessment and environmental data collections programs, some of which utilize a web-based data management system.

In addition, Mr. Wright has experience in coordinating CERCLA/RCRA hazardous waste remediation projects involving construction, closure and waste disposal aspects. He has developed Spill Prevention, Control and Countermeasure (SPCC) Plans and Preparedness, Prevention and Contingency (PPC) Plans for manufacturing and industrial facilities, including plans for chemical and petroleum emergency response.

Mr. Wright also has extensive background in the mining industry. He has prepared numerous bituminous surface mine permits, underground mine permits, coal refuse disposal permits and supporting data. He has participated in the investigation and evaluation of mineral reserves and economic feasibility of recovery. Associated work included development of erosion and sedimentation control plans, stormwater management plans, and fugitive dust monitoring programs. Mr. Wright has supervised several water pollution investigations related to the mining and oil and gas industries.

**Education** Bachelor of Science, Geology, Indiana University of Pennsylvania, Indiana, PA, 1975  
Post-graduate course work – Coal Geology, Indiana University of Pennsylvania, 1980

**Certifications** Pennsylvania Licensed Professional Geologist PG-000745-G  
West Virginia Licensed Remediation Specialist LRS #25  
40-Hour OSHA Hazardous Waste Operations Training and Annual 8-hour Refreshers  
Confined Space Entry OSHA Certification

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### **Responsibilities**

Perform various technical and management duties on a variety of environmental projects including aspects of assessment and investigation. She has prepared numerous surface activity permits, underground mine permits and coal refuse disposal permits. Field activities include documenting on-site observations. Other duties include the preparation of technical reports, management of Access database and GIS, staff management activities, business development and proposal preparation.

### **Experience**

Ms. Freeman has gained valuable knowledge and experience in the hydrogeologic field in the 5 years she has been working with Moody. Prior to joining Moody, she was employed by West Virginia University as a research assistant where she worked on a research project funded through the US EPA on abandoned coal mine hydrology in the West Virginia panhandle. Ms. Freeman's experience includes:

- **COAL MINING**
  - Coordinate, conduct and oversee sampling of water supply wells, springs, and streams.
  - Investigate private water supply complaints.
  - Conduct property ownership research.
  - Prepare hydrologic and geologic sections of PA DEP permits.
  - Prepare probable hydrologic impacts statements.
  - Prepare geologic cross sections and lithologic logs.
  - Conduct evaluations for determining the impact of subsidence to stream flow.
  
- **GAS and OIL**
  - Manage pre-drilling survey activities
  - Manage investigations of post-drilling water complaints.
  - Complete feasibility study for disposal of coal bed methane production water.
  
- **WATER SUPPLY DEVELOPMENT**
  - Ground water feasibility studies for future high capacity community water supply wells
  - Evaluation of aquifer pump tests
  - Complete hydrogeologic studies summarizing testing results for newly developed wells for permitting purposes.
  
- **GIS**
  - Track and oversee the status of projects
  - Perform modeling of ground water elevations and contaminants
  - Prepare composite GIS maps with tax parcels, utilities and surface features

- ENVIRONMENTAL

- Assist in preparation of Phase I Environmental Site Assessment (ESA)
- Assist in preparation of PADEP environmental investigation work plans

**Education**

M.S. in Geology, West Virginia University, Morgantown, WV, 2003

B.S. in Geology, University of Cincinnati, Cincinnati, OH, 2001

**Certifications**

Pennsylvania Registered Professional Geologist (PG-004798)

**Professional Affiliations**

Pittsburgh Coal Mining Institute of America (PCMIA), Board of Directors

Society for Mining, Metallurgy and Exploration, Board of Directors -- Pittsburgh Section

**Matthew R. Mitchell, P.G.**  
**Project Geologist**

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**Responsibilities**

Mr. Mitchell currently acts as a project geologist to manage and assist on variety of projects in the field of hydrogeology. His primary responsibilities include the oversight of drilling projects, post-mining investigations, and groundwater resource evaluations. Other duties include project planning, budget tracking, and report and proposal writing.

**Experience**

Mr. Mitchell has nearly 6 years of experience during which he has performed a multitude of tasks for municipal, industrial, commercial, residential, and mining projects. Mr. Mitchell's experience includes the following:

- MINING
  - Coordinate, conduct and oversee sampling of wells and streams
  - Conduct property ownership research
  - Performance of permit compliance activities
  
- GROUNDWATER RESOURCE EVALUATIONS
  - Hydrogeologic research to characterize aquifer parameters
  - Oversight of well drilling activities
  - Construction of well logs and geologic cross-sections
  - Borehole geophysical analysis
  - Performance of step rate and constant-rate pumping tests
  - Analysis of constant rate pumping test data to estimate aquifer characteristics and capabilities
  - Evaluation of water quality analytical results in the context of the USEPA's primary drinking water standards list
  - Groundwater recharge and water balance analysis
  - Fracture trace analysis for well location selection
  - Review of geophysical survey results (VLF and ERI) for selection of test well drilling locations
  - Technical report writing
  
- ENVIRONMENTAL GEOLOGY
  - Performance and analysis of slug tests
  - Construction of groundwater contour maps
  - Monitoring well installation
  - Compilation of hydrogeologic data for the construction of conceptual groundwater flow models

- Groundwater and surface water quality sampling
- Stream flow monitoring
- Stream morphology surveys
- Wohlman Pebble Count studies
  
- GEO TECHNICAL ENGINEERING
  - Description of rock cores and soil borings
  - Supervision of packer testing
  - Foundation inspection
  - Steel pile installation inspection
  - Inspection of lime and cement soil stabilization
  - Laboratory soils testing
  - Concrete strength testing

### **Education**

B.S. in Geology, West Virginia University, Morgantown, WV, 2001

### **Certifications**

Delaware Registered Professional Geologist (License # S4-0001231)

Pennsylvania Registered Professional Geologist (License # PG004837)

## Client References

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### Recently Constructed Projects

#### **Monty Warner**

#### **McCoy 6 Properties**

401 Grand Central Station Dr # 6002  
Morgantown, WV 26505  
304-291-2548

#### **John Sommers, Senior Construction Projects Manager**

#### **West Virginia University**

PO Box 6572  
Morgantown, WV 26505  
304-293-2856

#### **Stephen Debarr**

#### **Division of Natural Resources**

Building 3, Room 719

Capitol Complex

Charleston, WV 25301

304-558 - 2775

#### **McDonald Smith**

#### **WV Parks and Recreation, Division of Natural Resources**

1200 Harrison Avenue

Elkins, WV 26241

304-637-0300

#### **Van Anderson**

#### **Mylan Park**

500 Mylan Park Lane

Morgantown, WV 26507

304-293-9383







**VESP**

VALLEY ENGINEERING  
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## *REFERENCES*

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Crossroads Farm  
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Penn Laird, VA 22846  
(540) 433-5182

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(540) 289-9020

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Madison Farm, LLC  
558 Benny's Beach Road  
Front Royal, VA 22630  
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Richmond, VA 23219  
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656 Elm Avenue, SW  
Roanoke, VA 24016  
(540) 342-4002



## REFERENCES MILLER ENGINEERING INC

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Morgantown, West Virginia 26506  
304-293-2875

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Bridgeport, West Virginia 26330  
304-842-1970

Dennis Stewart, West Virginia General Services Division  
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206 Winchester Ave  
Moorefield WV  
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PO BOX 6551  
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Ralph Larue, Assistant Director  
Morgantown Board of Parks and Recreation  
POB 590  
Morgantown, WV 26505

**MOODY AND ASSOCIATES, INC.**  
**PROJECT REFERENCES**  
**GROUND WATER SUPPLY DEVELOPMENT PROJECTS**

- Union Williams Public Service District  
P.O. Box 243  
Waverly, WV 26184

Contact: Jerry Dotson/Dave Dillan - Phone: (304) 483-3497

- Page Kincaid Public Service District  
Box 165  
Kincaid, WV 25119

Contact: Bart Jackson Phone: (304) 465-1045

- Moundsville Water Board  
P.O. Box 480  
Moundsville, WV 26041

Contact: James Woods - Phone: (304) 845-0380

- Preston County Public Service District #4  
P.O. Box 370  
Bruceton Mills, WV 26525

Contact: Robert Bailey – Phone: (304) 379-3130